



Subject card

Subject name and code	Lean Manufacturing, PG_00062997						
Field of study	Power Engineering, Power Engineering, Power Engineering						
Date of commencement of studies	February 2024	Academic year of realisation of subject				2024/2025	
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery				at the university	
Year of study	2	Language of instruction				English	
Semester of study	3	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Jacek Kropiwnicki					
	Teachers	Farian Krohne dr hab. inż. Jacek Kropiwnicki					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		0.0		0.0	30
Subject objectives	Learning the methods of development of production systems, process optimization strategies and change management.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
Subject contents	Development of Production Systems and Lean Management. Strategies in Process Optimisation. Analytical Methods. Lean Principles and Lean Methods. Change Management. Roll-out Strategies for Lean Manufacturing. Total productive Management.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	Test		60.0%			100.0%	
Recommended reading	Basic literature		Liker, Jeffrey K.: The Toyota Way: 14 Management Principles from the World's Greatest Manufacturer, 2nd Edition, McGraw-Hill Education Ltd, 2020. Womack, James P.; Jones, Daniel T.; Roos, Daniel: The Machine That Changed the World, Free Press, 2007. Womack, James P.; Jones, Daniel T.: Lean Thinking: Banish Waste and Create Wealth In Your Corporation, Simon & Schuster, 2003.				
	Supplementary literature		Monden, Yasuhiro: Toyota Production System: An Integrated Approach to Just-in-Time. Productivity Press; 4th Edition, 2011. Ohno, Taiichi: Toyota Production System: Beyond Large-Scale Production. Productivity Press; Repr. Edition, 1988.				

	eResources addresses	Adresy na platformie eNauczenie: Lean Manufacturing; group 1; 9.30; Power Engineering , W, , sem. 03, letni 24/25 (PG_00062997) - Moodle ID: 43883 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=43883
Example issues/ example questions/ tasks being completed	Development of Production Systems and Lean Management. Strategies in Process Optimisation. Analytical Methods. Lean Principles and Lean Methods. Change Management. Roll-out Strategies for Lean Manufacturing. Total productive Management.	
Work placement	Not applicable	

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