

Subject card

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Subject name and code	Lean Manufacturing, PG_00062998								
Field of study	Power Engineering, Power Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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	Zakład Ekoinżynierii i Silników Spalinowych -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	surname Subject supervisor		dr hab. inż. Jacek Kropiwnicki						
of lecturer (lecturers)	Teachers	dr hab. inż. Jacek Kropiwnicki							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include 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			
	environmental effects of energy technologies used; is familiar with the issues of effective energy management and use of					[SW1] Assessment of factual knowledge			
			The student is able to communicate in English while discussing process optimization strategies, analytical methods, Lean principles and methods, change management, and Lean Manufacturing implementation strategies.			[SU3] Assessment of ability to use knowledge gained from the subject			
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	, , ,		Passing threshold			Percentage of the final grade			
and criteria	, , ,		60.0%			100.0%			

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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 eNauczanie:				
		Lean Manufacturing, W, Energetyka, sem. 03, letni 23/24 (PG_00062998) - Moodle ID: 37996 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37996				
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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