

Subject card

Subject name and code	, PG_00056524								
Field of study	Engineering Management								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2024/2025			
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	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Inżynierii Zar	ządzania i Jako	ości -> Faculty	of Managemer	nt and E	conomi	ics		
Name and surname	Subject supervisor		dr inż. Ewa Marjańska						
of lecturer (lecturers)	Teachers		dr inż. Ewa Marjańska						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	8.0	0.0	16.0	0.0		0.0	24	
	E-learning hours inclu	uded: 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	24		0.0		0.0		24	
	eliminate key challenges in production processes. The aim of the theoretical material (lectures) is to familiarize students with the problems that arise in production processes and the way in which the presented tools help in solving them The aim of the exercises is to support students in the development of skills and the use of tools for various processes and situations.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
Loanning outcomes	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		The student is able to design solutions using the indicated Lean Manufacturing methods and tools		[SU4] Assessment of ability to use methods and tools				
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student has basic knowledge of the use of Lean Manufacturing tools to eliminate key challenges in production processes.		uring nges	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
Subject contents									
	Basic concepts related to Lean Manufacturing5S - involvement in the elimination of wasteVisual performance managementOne piece flow / Continuous flowStandardization of workMilk run - organization of supplying stations with materialsPoka-yoke - good the first timeKamishibai - tiered standards auditingSuggestion systemSMED								

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Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Final exam	60.0%	50.0%		
	Presence	75.0%	15.0%		
	Mini projects	60.0%	20.0%		
	Quizes on e-nauczanie	85.0%	15.0%		
Recommended reading	Basic literature	Narzędzia Lean Manufacturing, Joanna Czerska Pozwól płynąć swojemu produktowi, Joanna Czerska			
	Supplementary literature	Doskonalenie strumienia wartości. Joanna Czerska			
	eResources addresses	Adresy na platformie eNauczanie: LEAN MANUFACTURING 24/25 NSTC - Moodle ID: 40222 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40222			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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