

Subject card

Subject name and code	, PG_00056524								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2025/2026			
Education level	first-cycle studies		Subject group						
Mode of study	Part-time studies (on-line)		Mode of delivery			blended-learning			
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	Department of Management Engineering and Quality -> Faculty of Management and Economics -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Marjańska						
	Teachers		dr inż. Ewa Marjańska Łukasz Rogatka						
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Project Ser		Seminar	SUM			
of instruction	Number of study hours	8.0	0.0	16.0	0.0		0.0	24	
	E-learning hours included: 18.0								
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	
	The aim of the Lean Manufacturing course is to develop students' skills in using Lean Manufacturing tools to 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				
	[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.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[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				
Subject contents	Basic concepts relate performance manage supplying stations wire auditingSuggestion s	ementOne piece th materialsPok	e flow / Continu	ious flowStand	ardization	on of w	orkMilk run -		

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Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Quizes on e-nauczanie	85.0%	15.0%			
	Mini projects	60.0%	20.0%			
	Presence	75.0%	15.0%			
	Final exam	60.0%	50.0%			
Recommended reading	Basic literature		edzia Lean Manufacturing, Joanna Czerska ól płynąć swojemu produktowi, Joanna Czerska			
	Supplementary literature	Doskonalenie strumienia wartości. Joanna Czerska				
	eResources addresses					
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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