

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00054586							
Field of study	Engineering Management							
Date of commencement of studies	October 2022		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	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		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				CS			
Name and surname	Subject supervisor		dr inż. Ewa Marjańska					
of lecturer (lecturers)	Teachers		dr inż. Ewa M mgr Anna We	r inż. Ewa Marjańska Igr Anna Wendt				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity Participation ir classes include plan		I didactic Participation in ed in study consultation hours		Self-study SUM			
	Number of study hours	er of study 45		4.0		26.0 75		75
Subject objectives	Objective of the subject The objective of the Lean Manufacturing subject is to develop students' skills in using Lean Manufacturing tools to eliminate key challenges in production processes. The objective of the theoretical material (lectures) is to introduce students to problems that arise in production processes and the way in which the presented tools help to solve them. The objective of the exercises is to support students in developing skills, using tools for various processes and situations.							s' skills in ctive of the cesses and the rt students in
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.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K6_U08] analyses e and managerial solu decision-making pro- into account pro-qua environmental aspec safety of work process	engineering tions in cesses, taking lity and pro- cts, as well as sses	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	1. Basic concepts related to Lean Manufacturing2. 5S - commitment to eliminating waste3. Visual management of results4. One piece flow/Continuous flow5. Work standardization6. Milk run - organization of supplying stations with materials7. Poka-yoke - right the first time8. Kamishibai - layered auditing of standards9. Suggestion system10. SMED							
and co-requisites								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Debate	60.0%	10.0%			
	Nonobligatory tasks	60.0%	15.0%			
	Obligatory tasks	60.0%	25.0%			
	Exam	60.0%	50.0%			
Recommended reading	Basic literature	King, Peter L. Lean for the Process Industries				
	Supplementary literature	J. Liker, The Toyota Way J. Humble, Lean Enterprise: How High Performance Organizations Innovate at Scale.				
	eResources addresses	Uzupełniające Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	1. What is the process of determining the milkman's route?2. Retool the machine using the SMED methodology3. Design a Poka Yoke solution					
Work placement	Not applicable					

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