

Subject card

Subject name and code	Lean Management, PG_00064719								
Field of study	Management and Production Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study 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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessmer	sessment form			exam		
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics								
Name and surname	Subject supervisor	dr inż. Joanna Czerska							
of lecturer (lecturers)	Teachers	ners							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	30.0	0.0	0.0		0.0	60	
	E-learning hours included: 0.0								
	Additional information: Non-computer simulation game, team and individual work, interactive lectures.								
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	60		9.0		31.0		100	
Subject objectives	The concept of Lean increasing number of students to the world Production System) a leaders desired by the	companies.The of management so support s	erefore, the ain at concept base students in deve	n of the Lean Med on the Toyot eloping skills th	lanager a Produ	ment co uction S	urse is to intr ystem (TPS	oduce Toyota	

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Course outcome	Subject outcome	Method of verification			
[K7_U01] uses known analytical, simulation and experimental methods as well as mathematical models to analyze and evaluate stationary and non-stationary technological and production systems/processes with continuous and discrete operation	The student is able to perform value stream mapping using the Makigami method, identify losses in the process, prioritize and plan improvement actions.	[SU1] Assessment of task fulfilment			
[K7_U12] dvelops her/his own potential and independently plans own, lifelong learning, while also being able to guide others in this regard	The student creates their development plan in relation to the subject and keeps a journal of reflections on the progress of this development. The development plan includes soft, managerial and hard skills. Knows the principles of Lean Thinking and uses them.	[SU1] Assessment of task fulfilment			
[K7_W03] demonstrates structured and theoretically based knowledge covering key issues in the field of Management and Production Engineering enabling the design and synthesis of stationary and non-stationary systems, devices and technological processes with continuous and discrete operation	The student has knowledge of leadership in accordance with the principles of lean management and end-to-end process analysis in order to improve processes and jobs in these processes.	[SW1] Assessment of factual knowledge			
[K7_K01] is aware of the importance and understanding of non-technical aspects and effects of engineering/production activities, including its impact on the environment and the related responsibility for decisions made, demonstrating knowledge of actions aimed at reducing risk and anticipating the social and environmental effects of engineering/production activities	The student is able to indicate the role of team values, teamwork and communication in the implementation of changes in the processes in which people work. The student is able to define the values that guide them, develop team values and define attitudes that reflect these values.	[SK2] Assessment of progress of work			
 History of Toyota Production System Fundamental principles of Lean Management Lean Leadership and its key elements (work based on values, hoshin kanri, kaizen of employees and processes) My development plan. My reflections. Process improvement based on daily management (simulation game) Value stream mapping using the Makigami method Methods of engaging employees in changes Lean Taboo. Lean competency management. 					
Subject passing criteria	Passing threshold	Percentage of the final grade			
Mini team projects	60.0%	40.0%			
Exam	60.0%	20.0%			
Theoretical quizzes	60.0%	20.0%			
My development plan	60.0%	20.0%			
Basic literature	Womack J.P.; Jones D.T. "Lean Thinking", Simon & Schuster, 2002Liker J.K., "The Toyota way. 14 management principles from the world's greatest manufacturer", McGraw-Hill Education, 2004				
	[K7_U01] uses known analytical, simulation and experimental methods as well as mathematical models to analyze and evaluate stationary and non-stationary technological and production systems/processes with continuous and discrete operation [K7_U12] dvelops her/his own potential and independently plans own, lifelong learning, while also being able to guide others in this regard [K7_W03] demonstrates structured and theoretically based knowledge covering key issues in the field of Management and Production Engineering enabling the design and synthesis of stationary and non-stationary systems, devices and technological processes with continuous and discrete operation [K7_K01] is aware of the importance and understanding of non-technical aspects and effects of engineering/production activities, including its impact on the environment and the related responsibility for decisions made, demonstrating knowledge of actions aimed at reducing risk and anticipating the social and environmental effects of engineering/production activities • History of Toyota Production Sy Fundamental principles of Lean Lean Leadership and its key ele processes) • My development plan. My reflect Process improvement based on Value stream mapping using the Methods of engaging employee Lean Taboo. Lean competency Subject passing criteria Mini team projects Exam Theoretical quizzes My development plan	[K7_U01] uses known analytical, simulation and experimental methods as well as mathematical models to analyze and evaluate stationary and non-stationary technological and production systems/processes with continuous and discrete operation [K7_U12] dvelops her/his own potential and independently plans with great or structured and theoretically based knowledge covering key issues in the field of Managament and floedered production Engineering enabling the design and synthesis of stationary and non-stationary systems, devices and technological processes with continuous and discrete operation [K7_K01] is aware of the importance and understanding of non-technical aspects and effects of engineering/production activities, including its impact on the environment and the related responsibility for decisions made, demonstrating knowledge of actions aimed at reducing risk and anticipating the social and environmental effects of engineering/production activities. The student is able to indicate the role of team values, teamwork and communication in the importance and understanding of non-technical aspects and effects of engineering/production activities. The student is able to indicate the role of team values, teamwork and communication in the importance and understanding six and anticipating the social and environmental effects of engineering/production activities. The student is able to perform value stream mapping using the design and processes in which people work. The student is able to indicate the role of team values, teamwork and communication in the implementation of changes in the processes in which people work. The student is able to indicate the role of team values, teamwork and communication in the implementation of changes in the processes in which people work. The student is able to indicate the role of team values, teamwork and communication in the implementation of changes in which people work. The student is able to indicate the role of team values, teamwork and communication in the implementation of cha			

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	Supplementary literature	Bicheno J.R, Holweg M., "A Handbook for Lean Transformation", PICSIE Books, 2016				
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: 1. Develop your development plan and track its progress during the course. 2. Make a Makigami process mapping 3. Create a competency matrix for the team 4. Design one-point lessons for selected lean tools					
Work placement	Not applicable					

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