

Subject card

Subject name and code	Lean Six Sigma Projects, PG_00155693						
Field of study	Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Master's 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Zakład Zrównoważonego Rozwoju i Nauk o Jakości -> Katedra Strategicznego Rozwoju -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Małgorzata Szymańska-Brałkowska				
	Teachers		dr Małgorzata Szymańska-Brałkowska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
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	15		2.0		8.0	25
Subject objectives	The aim of the classes is to solve problems in selected companies using Lean Six Sigma.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[ZARZMU2_U04] The student can creatively apply management and quality studies knowledge in professional practice.	Student is able to apply the acquired knowledge in solving the problems in the company.	[SU2] presentation/project/paper/report
	[ZARZMU2_U10] The student has an in-depth ability to prepare written works and multimedia presentations on specific issues in management and quality studies, present them, and lead discussions in Polish and foreign languages.	Student prepares multimedia presentation.	[SU2] presentation/project/paper/report
	[ZARZMU2_K06] The student is ready to work in, contribute to or manage groups. Takes the initiative when working in a group. The student can lead and supervise a team.	Student works in group on a project.	[SK2] presentation/project/paper/report
	[ZARZMU2_K02] The student is aware of the need to supplement and expand the acquired knowledge and skills and strives to combine knowledge from different fields and disciplines of science interdisciplinarily. The student can inspire others to learn.	Student expands the acquired knowledge and inspires the others to learn.	[SK1] oral statement/conversation/discussion
	[ZARZMU2_W10] The student identifies, understands, explains in an in-depth manner the mechanism of functioning of functional areas in an enterprise, their interrelationships and their role in the implementation of enterprise objectives.	Student is able to determine the impact of functional areas in the company on the achievement of the goals.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[ZARZMU2_W04] The student has an extended knowledge of the enterprise environment, its factors and changes occurring in this area, as well as the relations, significance and influence of the environment and stakeholders on the functioning of the enterprise. The student has expanded knowledge of tools for diagnosing macro- and micro-environment.	Student has a knowledge on the tools for diagnosing macro- and micro environment.	[SW2] presentation/project/paper/report
	[ZARZMU2_U08] The student correctly uses complex terminology in the field of social sciences, especially in the discipline of management and quality studies, clearly and communicatively expresses his point of view.	Student uses complex terminology in the field of management and quality sciences.	[SU1] oral statement/conversation/discussion
	[ZARZMU2_W12] The student has an in-depth knowledge and understanding of the functions of management and the role of managers in their implementation.	Student knows and understands the functions of management and the role of key management.	[SW2] presentation/project/paper/report
	[ZARZMU2_K03] The student is aware of the need to identify critical complex problems, including economic and social ones, and to plan ways to solve them under changing and unpredictable conditions.	Student identifies socio-economic problems that impact the company and plans how to solve them.	[SK2] presentation/project/paper/report

Subject contents	1. Introduction to the topic of Lean Management, Six Sigma, Lean Six Sigma. 2. Designating project tasks - division into groups. 3. Selected Lean tools, waste, Kaizen approach - characteristics. 4. Lean, Lean Six Sigma and environmental protection - selected tools, waste, Lean and Green approach (Green Lean). 5. Selected Lean Six Sigma tools. 5. Presentation of the results.		
Prerequisites and co-requisites	None.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%

Recommended reading	Basic literature	1. Lisiecka K., Burka I., Lean Service w teorii i praktyce, Wydawnictwo Uniwersytetu Ekonomicznego w Katowicach, Katowice 2016. 2. Czerska J., Pozwól płynąć swojemu produktowi. Tworzenie ciągłego przepływu, Wydawnictwo Placet, Warszawa 2011. 3. Walentynowicz P., Uwarunkowania skuteczności wdrażania Lean Management w przedsiębiorstwach produkcyjnych w Polsce, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2014. 4. Liker J.K., Hoseus M., (przełożył Kowalczyk M.), Kultura Toyoty. Serce i dusza filozofii Toyoty, MT Biznes, Warszawa 2009. 5. Szymańska-Brałkowska M., Janków M., Implementation of Green Lean, International Journal of Arts and Sciences, Vol. 5, Nr 1, 2012, ss. 155-162, ISSN: 1944-6934 (publikacja dostępna online). 6. Szymańska-Brałkowska M., Zieliński G., Green Lean in Services, Zarządzanie i Finanse. Journal of Management and Finance, Vol.13, No. 2/2015, Wydział Zarządzania Uniwersytetu Gdańskiego, Gdańsk 2015 (publikacja dostępna online). 7. Malinowska E., Szymańska-Brałkowska M., Lean in the opinion of the employees of production company, Zarządzanie i Finanse. Journal of Management and Finance, Vol.13, No. 2/2015, Wydział Zarządzania Uniwersytetu Gdańskiego, Gdańsk 2015 (publikacja dostępna online). 8. Szymańska-Brałkowska M., Malinowska E., The improvement of the Company's Environmental Performance Through the Application of Green Lean/Lean and Green Approach, Institute of Economic Research Working Papers, no. 127, Institute of Economic Research: Polish Economic Society Branch, Toruń 2017 (publikacja dostępna online). 9. Szymańska-Brałkowska M., Kaizen metoda zwiększenia produktywności przedsiębiorstwa, [w:] Zarządzanie jakością - Doskonalenie organizacji. Tom I, T. Sikora (red.), Uniwersytet Ekonomiczny w Krakowie, Katedra Zarządzania Jakością, Wydawnictwo Naukowe PTTŻ, Kraków 2010, ss. 603-613. ISBN 978-83-929209-4-6. 10. Szymańska-Brałkowska M., Korzyści ekonomiczne i ekologiczne podejścia Green Lean na przykładzie wybranych przedsiębiorstw produkcyjnych, M. Szymańska-Brałkowska, [w:] Systemy, procesy, narzędzia, L. Zawadzka, G. Zieliński (red.), Wydawnictwo Politechniki Gdańskiej, Gdańsk 2013, ISBN 978-83-7348-516-7, ss. 113-122. 11. Harry M., Schroeder R., Six sigma, Oficyna Wydawnicza, Dom Wydawniczy ABC, Kraków 2001. 12. Hamrol A., Zarządzanie Jakością z przykładami, PWN, Warszawa, 2008. 13. Wiśniewska M., Malinowska E., Zarządzanie jakością żywności. Koncepcje. Systemy, Instrumenty, Difin, Warszawa 2011. 14. Wiśniewska M.Z., Jakość usług medycznych. Instrumenty i modele, CeDeWu, Warszawa 2016. 15. Wiśniewska M.Z., Grudowski P., Zarządzanie jakością i innowacyjność w świetle doświadczeń organizacji Pomorza, Innobaltica, Gdańsk 2014 (dostępne w Internecie).
	Supplementary literature	1. Lis M., SIX SIGMA jako metoda doskonalenia jakości przedsiębiorstw w okresie rosnącej globalizacji, Zeszyty Naukowe Wyższej Szkoły Humanitas. Zarządzanie 2014, Nr 2 (dostępne w Internecie). 2. Grudowski P., Czarnacki A., Uwarunkowania wykorzystania metodyki Six Sigma w sektorze MŚP z uwzględnieniem możliwości zastosowania aplikacji komputerowych, Zarządzanie i Finanse 2012, Nr 3(1) (dostępne w Internecie). 3. Grudowski P., Wiśniewska M., Six Sigma w małych i średnich przedsiębiorstwach. Puste hasło czy konieczność, Prace Naukowe Uniwersytetu Wrocławskiego 2015, Nr 376 (dostępne w Internecie).
	eResources addresses	

Example issues/ example questions/ tasks being completed	Using Lean Six Sigma tools to solve a specific problem in the company.
Work placement	Not applicable

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