

Subject card

Subject name and code	Lean Management, PG_00059486								
Field of study	Management and Production Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023			
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			blended-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits		4.0				
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Piotr Grudowski						
	Teachers		dr inż. Ewa Marjańska						
	mgr Anna Wendt								
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: 30.0								
	Additional information: The lecture takes place remotely. The link to the lecture can be found on the e-learning course page. Stationary exercises.								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	60		8.0		32.0		100	
Subject objectives	The aim of the Lean I based on the Toyota development of skills the so-called. Best in	Production Systhat will allow t	stem (TPS - To	yota Productio	n Syster	m) and	to support stud	dents in the	

Data wydruku: 02.05.2024 21:08 Strona 1 z 3

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K7_U81] is able to communicate with ease in foreign language at B2+ level of the Common European Framework of Reference for Languages (CEFR) in everyday life, in academic and professional environments	Knows the English terminology of Lean tools and concepts.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K7_K03] can think and act in a creative and entrepreneurial manner	According to the Lean principle, thinks creatively and outside the box. He looks for the simplest solutions.	[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	[K7_W04] has an organized knowledge of the life cycle of devices, facilities and technical systems, has an extensive knowledge of management.	Has knowledge of the organization and functioning of the Lean production system according to the TPS (Toyota Production System) concept.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K7_W01] knows and understands to a greater extent selected issues in the field of management and quality sciences and mechanical engineering, their location in the field of social sciences and engineering and technical sciences, as well as relationships with related disciplines, and sees the possibility of applying the knowledge in practice	Knows and applies the basic concepts and tools of Lean.	[SW3] Assessment of knowledge contained in written work and projects			
	[K7_U04] is able to plan and carry out experiments, including measurements and computer simulations, interpret the obtained results and extract conclusions; can use analytical, simulation and experimental methods to formulate and solve engineering tasks	Can perform value stream mapping, identify value adding activities in processes.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
Subject contents						
	TPS history Introduction to Lean Lean tools Lean Leadership Employee engagement Simulation game Daily management Problem solving Lean Taboo					
Prerequisites and co-requisites	None. An introductory subject to LE	AN.				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Exercises credit	60.0%	50.0%			
	Lecture credit	60.0%	50.0%			
Recommended reading	Basic literature TPS handbook Toyota Way					
	Supplementary literature "Lean Thinking", Womack J.P.; Jones D.T.					
	"Machine that changed the world" Womack J.P.; Jones D.T.; Roos D					
	eResources addresses	Adresy na platformie eNauczanie: Lean Management WIMiO - Moodle ID: 28814 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28814				

Data wydruku: 02.05.2024 21:08 Strona 2 z 3

Example issues/ example questions/ tasks being completed	Zaprojektować produkt i proces
	Projekt 5S zaangażuj do dostrzegania 3M
	Projekt - program pomysłów pracowniczych korzystaj z wiedzy na gemba
Work placement	Not applicable

Data wydruku: 02.05.2024 21:08 Strona 3 z 3