

Subject card

Subject name and code	Design Thinking, PG_00049447								
Field of study	Engineering Management								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022			
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	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Industrial Management -> Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Grzegorz Zieliński							
	Teachers	dr inż. Grzegorz Zieliński							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	30.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Design thinking - sem LETNI 2021/2022 sem II - Moodle ID: 22536 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22536								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM		
	Number of study hours	30		5.0		40.0		75	
Subject objectives	the aim of the course is to present the concept of design thinking in creative design of new product concepts								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		has a basic knowledge of design using creative techniques			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U10] uses tools to measure and improve technical solutions concerning: devices, objects, systems, processes, products and services		uses tools to measure and improve technical solutions in designing new product concepts			[SU1] Assessment of task fulfilment			
Subject contents	- the basics of creativity, - development and stimulation of creativity - developing individual and team creativity - heuristic techniques - sinecetic techniques - team forms of generating ideas - empathy in Design Thinking - Design thinking phases according to the Design Thinking concept								
Prerequisites and co-requisites									
Assessment methods	Subject passin	Passing threshold			Percentage of the final grade				
and criteria	Project	60.0%			100.0%				

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Recommended reading	Basic literature	Michalska - Dominiak B., Grocholiński P., Poradnik Design Thinking, Wyd. Helion , Gliwice 2019				
		Ingle B., Design thinking dla przedsiębiorców i małych firm, Wyd. Helion 2015				
	Supplementary literature	Kelley T., Kelley D., Twórcza odwaga. Otwórz się na design thinking, Wyd. MT Bizness 2019				
	eResources addresses	Design thinking - sem LETNI 2021/2022 sem II - Moodle ID: 22536 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22536				
Example issues/ example questions/ tasks being completed	Project with using the Design Thinking concept					
Work placement	Not applicable					

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