

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Design Thinking, PG_00049447								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
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 deliverv			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 Management Engineering and Quality -> Faculty of Management and Economics						s		
Name and surname	Subject supervisor dr hab. inż. Anna Lis								
of lecturer (lecturers)	Teachers		dr hab. inż. Anna Lis						
			dr inż. Ewa M						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	30.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan		I didactic Participation in consultation hours		Self-study SUM		SUM		
	Number of study hours	30		5.0		40.0		75	
Subject objectives	The aim of the course is to familiarize students with the concept of Design Thinking and the methods used within this concept								
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		Student has a knowledge of designing new products in accordance with the concept of Design Thinking			[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		The student uses methods tailored to the different phases distinguished in the Design Thinking concept			[SU4] Assessment of ability to use methods and tools			
Subject contents	Module 1 - Introduction; Module 2 - Empathizing; Module 3 - Defining the Problem; Module 4 - Generating Ideas; Module 5 - Building Prototypes; Module 6 - Testing & Final Presentations; Module 7 - Final exam.								
Prerequisites and co-requisites	Not applicable								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	final project	nal project		60.0% 100.0%					
Recommended reading	Basic literature	Brown, T. (2019). Change by design, revised and updated: how design thinking transforms organizations and inspires innovation. HarperCollins.							
			Kelly, R. (2016). Creative development: Transforming education through design thinking, innovation, and invention. Brush Education.						

	Supplementary literature	 Brown, T., & Katz, B. (2011). Change by design. <i>Journal of product innovation management</i>, <i>28</i>(3), 381-383. Kelly, N., & Gero, J. S. (2021). Design thinking and computational thinking: A dual process model for addressing design problems. <i>Design Science</i>, <i>7</i>, e8. 		
	eResources addresses	Adresy na platformie eNauczanie: Design thinking - Moodle ID: 28817 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28817		
Example issues/ example questions/ tasks being completed	Please list all the phases distinguished in Design Thinking with methods and tools			
Work placement	Not applicable			

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