GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	DESIGN THINKING, PG_00061691		
Field of study	Engineering Management		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Part-time studies (on-line)	Mode of delivery	blended-learning
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Lis	
	Teachers	dr hab. inż. Anna Lis	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	16.0	0.0	0.0	0.0	16

E-learning hours included: 12.0

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	16	0.0	0.0	16

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 and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
final 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. *Journal of product innovation management*, *28*(3), 381-383. Kelly, N., & Gero, J. S. (2021). Design thinking and computational thinking: A dual process model for addressing design problems. *Design Science*, *7*, e8.
	eResources addresses	Adresy na platformie eNauczanie: Design thinking 2023/2024 - Moodle ID: 10828 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10828
Example issues/ example questions/ tasks being completed	Please list all the phases distinguished in Design Thinking with methods and tools	
Work placement	Not applicable	