

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Global Digital Transformation,PG_00053753							
Field of study	Engineering Manager	ment						
Date of commencement of studies	October 2021		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	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			English The class will be taught in English		
Semester of study	5		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Inform	atics in Manag	ement -> Facu	ty of Managen	nent and	d Econo	omics	
Name and surname	Subject supervisor		dr Nadzeya Sabatini					
of lecturer (lecturers)	Teachers		dr Nadzeya Sabatini					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Learning outcomes	 economic and political development. After the course, the students should understand digital transformation: its defining features; its progress around the world; the benefits it can deliver and how to realize them; the threats it creates and how to respond to them;and development trends. 						erification	
Learning outcomes Course outcome [K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes [K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		A student is able to observe and analyze the working of digital systems and their impact on decision processes. A student understands how a combination of top-down design decisions and bottom-up organic growth shapes the behavior and impact of digital systems on society		[SU1] Assessment of task fulfilment [SW1] Assessment of factual knowledge				

Subject contents	BACKGROUND - What is digital transformation about?							
	LANDSCAPE - What is the global adoption of digital transformation? INNOVATIONS - What are the cases of digital transformation? FEATURES - What features define digital transformation? BOUNTY - What benefits can digital transformation deliver? SPREAD - How unequal are the benefits of digital transformation? WINNERS - Who benefits most from digital transformation?							
	IMPACT - What is the impact of the bounty and spread?							
Prerequisites								
and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Group project	60.0%	60.0%					
	Individual assessment	60.0%	40.0%					
Recommended reading	Basic literature 1. E. Brynjolfsson and A. McAfee, The Second Machine Age, 2016							
	2. B. Harris. Digital transformation the nextsteps. A business gu							
		digital change management, 2016						
	Supplementary literature	A. McAfee and E. Brynjolfsson, Machine, Platform, Crowd, 2017						
	T. M. Siebel, Digital Transformation, 2019							
		B. Boorsma, A New Digital Deal, 2018						
	K. Kelly, The Inevitable, 2016							
		M. Raskino and G. Waller, Digital to the Core, 2015						
	eResources addresses	Adresy na platformie eNauczanie:						
		2023/2024 Global Digital Transformation-Online - Moodle ID: 31537						
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31537							

Example issues/ example questions/ tasks being completed	 What do society and business want from digitalization? Does digitization have business value by itself? Is society responding to technological change reactively or proactively? What is the main difference between digitization and digitalization? What is the main difference between digitalization and digital transformation? What is the main difference between digitalization and digital transformation? What is the parallels between the first and the second machine age? Why is access to technology not accurate to represent the usage of technology? How is the international bandwidth calculated? What types of digital skill can you describe? 				
	12. What is the structure of the ICT sector?13. Describe the revenue trends in the ICT sector.				
	14. Is digital technology already mature?				
	15. What benefits digital technology bring to us?				
	16. Can digital technology improve the physical world? How? 1				
	7. What are the negative consequences of digital transformation?				
	18. Which skills/abilities will be of value in the second machine age, which wont?				
Work placement	Not applicable				