GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Global Digital Transformation, PG_00068506						
Field of study	Engineering Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-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	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	16.0	0.0	8.0	0.0	0.0	24
	E-learning hours included: 0.0						

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	24	4.0	47.0	75

Subject objectives	Assesses the impact of global digital transformation, analyzing its characteristics, benefits and threats

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] is ready to fulfill professional roles responsibly, taking legal, ethical, and cultural aspects into account in decision-making processes.	makes decisions in the digital environment with professional responsibility, considering legal, ethical, and cultural aspects of the global technological transformation	[SK5] Assessment of ability to solve problems that arise in practice
[K6_U07] uses advanced information technologies to enhance data analysis and management processes.	is able to use advanced digital and IT tools to analyze data and optimize management processes in the context of global digital transformation	[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
[K6_W03] knows reliable sources of information and utilizes advanced knowledge to explain contemporary management issues.	knows reliable sources of information on digital transformation and is able to use advanced knowledge to analyze and interpret managerial challenges related to digital technology development	[SW3] Assessment of knowledge contained in written work and projects

Subject contents	An introduction to digital transformation
	Problems of global implementation of digital transformation
	Types of digital transformation
	Features that define digital transformation
	The benefits of digital transformation
	Inequalities of benefits from digital transformation
	Who benefits the most from digital transformation
	What is the impact of digital transformation on the scope of benefits

Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	60.0%	60.0%
Group project	60.0%	40.0%

Recommended reading	Basic literature	E. Brynjolfsson and A. McAfee, The Second Machine Age, 2016 Measuring the Information Society Report 2018, International Telecommunication Union, https://www.itu.int/en/ITU-D/Statistics/Documents/publications/misr2018/MISR-2018-Vol-1-E.pdf
	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:
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 Which elements could be applied to measure human social development What are 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 Explain why inequalities in digital skills follow traditional inequality patterns What is the structure of the ICT sector Describe the revenue trends in the ICT sector Is digital technology already mature What benefits digital technology bring to us Can digital technology improve the and how physical world What are the negative consequences of digital transformation Which skills/abilities will be of value in the second machine age, which wont	
Work placement	Not applicable	

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