



Subject card

Subject name and code	GLOBAL DIGITAL TRANSFORMATION, PG_00061370						
Field of study	Engineering Management						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
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	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Tomasz Janowski				
	Teachers		dr Tomasz Janowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0	0.0	45
	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	45		5.0		50.0	100
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_W03] identifies reliable sources of information relevant to the analyzed issues		identifies all factors influencing digitization processes in the economy and social life, using them in critical assessments		[SW1] Assessment of factual knowledge		
	[K6_U02] prepares and presents convincing, professional presentations of the results of its activities, with their advanced interpretation		develops and presents professional studies of analysis results, presenting advanced interpretation of the studied phenomena		[SU5] Assessment of ability to present the results of task		
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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