



Subject card

Subject name and code	GLOBAL DIGITAL TRANSFORMATION, PG_00053120									
Field of study	Economic Analytics									
Date of commencement of studies	October 2022	Academic year of realisation of subject		2022/2023						
Education level	second-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	Mode of delivery		at the university						
Year of study	1	Language of instruction		English						
Semester of study	1	ECTS credits		4.0						
Learning profile	general academic profile	Assessment form		assessment						
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics									
Name and surname of lecturer (lecturers)	Subject supervisor		dr Nadzeya Sabatini							
	Teachers		dr Nadzeya Sabatini							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM			
	Number of study hours	16.0	8.0	0.0	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	6.0	70.0	100					
Subject objectives	The aim of the course is for the students to learn about global digital transformation as an enabler for social, economic and political development. After the course, the students should understand digital transformation: 1) its defining features; 2) its progress around the world; 3) the benefits it can deliver and how to realize them; 4) the threats it creates and how to respond to them; and 5) development trends.									
Learning outcomes	Course outcome		Subject outcome		Method of verification					
	[K7_K01] understands the need for continuous learning and, in particular, for advanced and modern tools for data analysis		Student is aware of the ongoing and dynamic nature of digital transformation, and knows how to track its progress using relevant literature and data sources.		[SK2] Assessment of progress of work					
	[K7_U06] has a broad knowledge of methods and tools for acquiring and collecting data, as well as analysing, explaining and reasoning on socio-economic phenomena and processes.		Student is able to choose literature, data and methods appropriate to the nature and context of the digital transformation.		[SU4] Assessment of ability to use methods and tools					
	[K7_W10] has an in-depth knowledge of quantitative methods to describe and analyse socio-economic processes using information technology		Student is able to identify, describe and analyze digital innovations with appropriate tools and methods.		[SW2] Assessment of knowledge contained in presentation					
	[K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness		Student is able to track progress with digital transformation within organizations, uncover problems and propose solutions.		[SU2] Assessment of ability to analyse information					
[K7_U10] has the ability to understand, analyse and evaluate economic phenomena on a macroeconomic scale		Student is able to understand and describe the impact of digital innovations on social, economic and political environment.		[SU2] Assessment of ability to analyse information						

Subject contents	Lecture:1. BACKGROUND - What is digital transformation about?2. LANDSCAPE - What is the global adoption of digital transformation?3. INNOVATIONS - What are the cases of digital transformation?4. FEATURES - What features define digital transformation?5. BOUNTY - What benefits can digital transformation deliver?6. SPREAD - How unequal are the benefits of digital transformation?7. WINNERS - Who benefits most from digital transformation?8. IMPACT - What is the impact of the bounty and spread?				
Prerequisites and co-requisites					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Project	60.0%	40.0%		
	Individual assessment	60.0%	60.0%		
Recommended reading	Basic literature	1. E. Brynjolfsson and A. McAfee, The Second Machine Age, 2016 2. 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	1. A. McAfee and E. Brynjolfsson, Machine, Platform, Crowd, 2017 2. T. M. Siebel, Digital Transformation, 2019 3. B. Boorsma, A New Digital Deal, 2018 4. K. Kelly, The Inevitable, 2016 5. M. Raskino and G. Waller, Digital to the Core, 2015 6. etc.			
	eResources addresses	Podstawowe https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27507 - ecourse Adresy na platformie eNauczanie:			
Example issues/example questions/tasks being completed	1. What do society and business want from digitalization? 2. Does digitization have business value by itself? 3. Is society responding to technological change reactively or proactively? 4. What is the main difference between digitization and digitalization? 5. What is the main difference between digitalization and digital transformation? 6. Which elements could be applied to measure human social development? 7. What are the parallels between the first and the second machine age? 8. Why is access to technology not accurate to represent the usage of technology? 9. How is the international bandwidth calculated? 10. What types of digital skill can you describe? 11. Explain why inequalities in digital skills follow traditional inequality patterns. 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? 17. What are the negative consequences of digital transformation? 18. Which skills/abilities will be of value in the second machine age, which won't?				
Work placement	Not applicable				