

## Subject card

Subject name and code	Global Digital Transformation , PG_00053753								
Field of study	Engineering Management								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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			
Semester of study	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics								
Name and surname	Subject supervisor	dr Nadzeya Sabatini							
of lecturer (lecturers)	Teachers		dr Nadzeya Sabatini						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	!		5.0			75	
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) possible futures of digital transformation.								
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		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.			[SW1] Assessment of factual knowledge			
	[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					[SU1] Assessment of task fulfilment			
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			
	Group Project		60.0%			40.0%			
	Individual assessmen	60.0%			60.0%				

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Recommended reading	Basic literature					
T tosominonada rodding		<ol> <li>E. Brynjolfsson and A. McAfee, The Second Machine Age, 2016</li> <li>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</li> </ol>				
	Supplementary literature	<ol> <li>A. McAfee and E. Brynjolfsson, Machine, Platform, Crowd, 2017</li> <li>T. M. Siebel, Digital Transformation, 2019</li> <li>B. Boorsma, A New Digital Deal, 2018</li> <li>K. Kelly, The Inevitable, 2016</li> <li>M. Raskino and G. Waller, Digital to the Core, 2015</li> <li>etc.</li> </ol>				
	eResources addresses	Podstawowe				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27507 - ecourse				
		Adresy na platformie eNauczanie:				
		2022/2023 Global Digital Transformation-Full time - bachelor - Moodle ID: 27507 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27507				
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 wont?					
Work placement	Not applicable					

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