



Subject card

Subject name and code	GLOBAL DIGITAL TRANSFORMATION, PG_00057045						
Field of study	Engineering Management						
Date of commencement of studies	October 2019	Academic year of realisation of subject			2021/2022		
Education level	first-cycle studies	Subject group			Optional subject group 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	3	Language of instruction			English The course is bilingual, in English and 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						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Tomasz Janowski					
	Teachers	mgr Jaromir Durkiewicz dr Tomasz Janowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	8.0	0.0	0.0	16
	E-learning hours included: 0.0						
	2021/2022 Global Digital Transformation - Moodle ID: 14878 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14878						
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	16	0.0		0.0		16
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, including: 1) the defining features of digital transformation; 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 is able to track progress with the digital transformation against the stated organizational or public policy goals, uncover problems, and propose solutions.			[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	A student is able to identify the opportunities and risks of digital innovations within organizations and analyze their impact on decision processes and the socio-economic environment.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>LECTURE</p> <ol style="list-style-type: none"> 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? <p>EXERCISES</p> <ol style="list-style-type: none"> 1. INTRODUCTION - Digitization, digitalization, digital transformation 2. TASK #1 - Team presentations 3. TRENDS AND INNOVATIONS - Trends cyfrowe, digital public innovations 4. TASK #2 - Team presentations 5. DIGITAL GOVERNMENT - Digital government and digital democracy 6. THE DARK SIDE OF DIGITALIZATION - The dark side of digitalization 7. DIGITAL EUROPE - State of things, vision, challenges, benchmarks 8. PROJECT Gaining useful feedback from the group and the teacher 																				
Prerequisites and co-requisites	none																				
Assessment methods and criteria	<table border="1"> <thead> <tr> <th>Subject passing criteria</th> <th>Passing threshold</th> <th>Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Exam</td> <td>60.0%</td> <td>45.0%</td> </tr> <tr> <td>Project</td> <td>0.0%</td> <td>25.0%</td> </tr> <tr> <td>Task 1</td> <td>0.0%</td> <td>10.0%</td> </tr> <tr> <td>Task 2</td> <td>0.0%</td> <td>10.0%</td> </tr> <tr> <td>Activity</td> <td>0.0%</td> <td>10.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Exam	60.0%	45.0%	Project	0.0%	25.0%	Task 1	0.0%	10.0%	Task 2	0.0%	10.0%	Activity	0.0%	10.0%
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Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 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																				