GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	GLOBAL DIGITAL TRANSFORMATION, PG_00057045		
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	Part-time studies	Mode of delivery	e-learning
Year of study	3	Language of instruction	English The class will be taught in English
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 Nadzeya Sabatini	
	Teachers	dr Nadzeya Sabatini	

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: 16.0

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	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.

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
[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	Student is able to track progress with digital transformation within organizations, uncover problems and propose solutions.	[SU2] Assessment of ability to analyse information
[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems	Student is able to understand and describe the impact of digital innovations on social, economic and political environment.	[SW2] Assessment of knowledge contained in presentation

<table>
<tr><td>Subject contents</td><td>BACKGROUND - What is digital transformation about?

LANDSCAPE - What is the global adoption of digital transformation?

INNOVATIONS - What are the cases of digital transformation?

FEATURES - What features define digital transformation?

BOUNTY - What benefits can digital transformation deliver?

SPREAD - How unequal are the benefits of digital transformation?

WINNERS - Who benefits most from digital transformation?

IMPACT - What is the impact of the bounty and spread?</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Individual assessment</td><td>60.0%</td><td>40.0%</td></tr>
<tr><td>Group project</td><td>60.0%</td><td>60.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>1. E. Brynjolfsson and A. McAfee, The Second Machine Age, 2016

2. B. Harris. Digital transformation the nextsteps. A business guide to digital change management, 2016</td></tr>
<tr><td>Supplementary literature</td><td>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</td></tr>
<tr><td>eResources addresses</td><td>Uzupełniające
Adresy na platformie eNauczanie:
2022/2023 Global Digital Transformation-Spring semester-Online - Moodle ID: 29274
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29274</td></tr>
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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? 1 7. 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