GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	DISRUPTIVE TECHNOLOGIES, PG_00061430
Field of study	Engineering Management

Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
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	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 -> Wydziały Politechniki Gdańskiej

Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sławomir Ostrowski
	Teachers	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	8.0	0.0	16.0	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	7.0	69.0	100

Subject objectives	Analyzes various forms of disruptive technologies, assessing the impact of their key factors on economic success

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions	demonstrates the ability to think creatively and analytically by comparing information from many different sources	[SK5] Assessment of ability to solve problems that arise in practice
[K6_U02] prepares and presents convincing, professional presentations of the results of its activities, with their advanced interpretation	analyzes solutions adopted in disruptive technologies, identifying and interpreting key factors affecting their applications	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents	Introduction to disruptive technologies (history and types) Presentation and discussion of different case studies of disruptive technologies: Smartphone, Blockchain, Sharing economy Introduction to Innovation Types of Innovation Disruptive Innovation Ecosystem Cases of disruptive technologies in different industries (GovTech (Smart Destination and Smart Cities), Fashion Technologies
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Group project	60.0%	20.0%
Exam	60.0%	60.0%
Lab Case Analysis – prepare and present presentation	60.0%	20.0%

Recommended reading	Basic literature	Carlos M. DaSilva, Peter Trkman, Kevin Desouza & Jaka Lindič (2013). Disruptive technologies: a business model perspective on cloud computing, Technology Analysis & Strategic Management, 25:10, 1161-1173, DOI: 10.1080/09537325.2013.843661 Coccia, Mario. (2017). Disruptive Technologies and Competitive Advantage of Firms in Dynamic Markets. SSRN Electronic Journal. 10.2139/ssrn.2960190 M. Bublitz, F.; Oetomo, A.; S. Sahu, K.; Kuang, A.; X. Fadrique, L.; E. Velmovitsky, P.; M. Nobrega, R.; P. Morita, P. Disruptive Technologies for Environment and Health Research: An Overview of Artificial Intelligence, Blockchain, and Internet of Things. Int. J.Environ. Res. Public Health 2019, 16, 3847. https://doi.org/10.3390/ Boer, Harry. (2001). Innovation, What Innovation? A Comparison between product, process and organizational innovation. International Journal of Technology Management - INT J TECHNOL MANAGE. 22. 83-107. 10.1504/IJTM.2001.002956
	Supplementary literature	.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Comprise analysis of cases on the application of disruptive technology in social, business or government context Students will work in a group of five to complete these lab exercises and develop a presentation on the results of their analyses	
Work placement	Not applicable	

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