



Subject card

Subject name and code	DISRUPTIVE TECHNOLOGIES, PG_00061372						
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	Full-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 -> Wydział 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	15.0	0.0	30.0	0.0	0.0	45
	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	45		7.0		48.0	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_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		
	[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		
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		
	Lab Case Analysis – prepare and present presentation		60.0%		20.0%		
	Group project		60.0%		20.0%		
	Exam		60.0%		60.0%		

Recommended reading	Basic literature	<p>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</p> <p>Coccia, Mario. (2017). Disruptive Technologies and Competitive Advantage of Firms in Dynamic Markets. SSRN Electronic Journal. 10.2139/ssrn.2960190</p> <p>M. Bublit, 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/</p> <p>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</p>
	Supplementary literature	.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Comprise analysis of cases on the application of disruptive technology in social, business or government context</p> <p>Students will work in a group of five to complete these lab exercises and develop a presentation on the results of their analyses</p>	
Work placement	Not applicable	

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