

## Subject card

Subject name and code	Disruptive Technologies , PG_00053756							
Field of study	Engineering Management							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
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	6		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr lic. Adegboyega Ojo					
	Teachers		dr lic. Adegboyega Ojo					
			dr Nadzeya Sabatini					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60
	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	60		7.0		58.0		125
Subject objectives	Explain the types and patterns of innovation     Discuss different types of disruptive technologies     Apply the idea of disruptive innovation in different industries     Develop							
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		Explain the types and patterns of innovation; Discuss different types of disruptive technologies			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		Apply the idea of disruptive innovation in different industries; Develop disruptive innovation ideas in selected industry.			[SW2] Assessment of knowledge contained in presentation		

Subject contents	ontents Module Overview						
	Part 1 - Introduction to Innovation						
	Part 2 - Types and Patterns of Innovation						
	Part 3 Business Analytics Part 1 & Part 2						
	Part 4 Artificial Intelligence Part 1 (Technology and Applications)						
	Part 5 Artificial Intelligence 2 (Ethics & Responsible Innovation)						
	Part 6 GovTech & Smart Cities as Disruptive Innovation Ecosystem						
	Module Summary						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Casjost passing sintana	0.0%	60.0%				
		0.0%	20.0%				
		0.0%	20.0%				
Recommended reading	Basic literature  Carlos M. DaSilva, Peter Trkman, Kevin Desouza & Jaka Lindič Disruptive technologies: a business model perspective on cloud computing, Technology Analysis & Strategic Management, 25:1 1161-1173, DOI: 10.1080/09537325.2013.843661 2. Coccia, M (2017). Disruptive Technologies and Competitive Advantage of Dynamic Markets. SSRN Electronic Journal. 10.2139/ssrn.2960  M. Bublitz, F.; Oetomo, A.; S. Sahu, K.; Kuang, A.; X. Fadrique, Velmovitsky, P.; M. Nobrega, R.; P. Morita, P. Disruptive Techn for Environment and Health Research: An Overview of Artificial Intelligence, Blockchain, and Internet of Things. int. JEnviron. R Public Health 2019, 16, 3847. https://doi.org/10.3390/ ijerph162 4. Boer, Harry. (2001). Innovation, What Innovation? A Compar between product, process and organizational innovation. Intern. Journal of Technology Management - INT J TECHNOLOGY MANAGEMENT. 22. 83-107. 10.1504/IJTM.2001.002956.						
	Supplementary 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 2. Coccia, Maria. (2017). Disruptive Technologies and Competitive Advantage of Firms in Dynamic Markets. SSRN Electronic Journal. 10.2139/ssrn.2960190. 3. 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. JEnviron. Res. Public Health 2019, 16, 3847. https://doi.org/10.3390/ ijerph16203847 4. Boer, Harry. (2001). Innovation, What Innovation? A Comparison between product, process and organizational innovation. International Journal of Technology Management - INT J TECHNOLOGY MANAGEMENT. 22. 83-107. 10.1504/IJTM.2001.002956.					
	eResources addresses	Uzupełniające Adresy na platformie eNauczanie: Technologie Przełomowe - Disruptive Technologies 2025 - Moodle 42894 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42894					
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.						

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Data wygenerowania: 12.03.2025 07:39 Strona 2 z 2