

## Subject card

Subject name and code	Disruptive Technologies , PG_00053756							
Field of study	Engineering Management							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
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			e-learning		
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	Lesson type	Lecture	Tutorial	Laboratory	Project S		Seminar	SUM
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60
	E-learning hours inclu	uded: 60.0						
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM	
	Number of study hours	60		7.0		58.0		125
	<ul> <li>Explain the types and patterns of innovation</li> <li>Discuss different types of disruptive technologies</li> <li>Apply the idea of disruptive innovation in different industries</li> <li>Develop disruptive innovation ideas in selected industry</li> </ul>							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
			innovation; Discuss different types of disruptive technologies			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	11					[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
Subject contents	Lectures: INTRODUCTION TO INNOVATION Types & Adoption of Innovation BUSINESS ANALYTICS VR & Immersive Technologies SMART CITIES Analytics-driven Public Service and Policy Innovation SUMMARY Laboratories: 1. Guidelines for laboratories 2. Part 1 - apply the theories and concepts Select an industry Details of DT/solution mass access Cost/finance structure Challenges and Risk management 3. Part 2 - Group Assessment Background of the chosen disruptive technology The technological change in the chosen industry in which the technology will be used The disruptive impact (or potential impact) of the technology in the industry, or how it is being used to create new markets in the industry Explain the challenges associated with the use of the technology in the industry Future developments of the technology and implications for the industry							

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Prerequisites and co-requisites	nil					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Report and oral presentation	0.0%	20.0%			
	Report	0.0%	20.0%			
	Written inidvidual test	0.0%	60.0%			
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 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. J Environ. 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.				
	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. J Environ. Res. Public Health 2019, 16, 3847. https://doi.org/10.3390/ jjerph16203847 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	Adresy na platformie eNauczanie: Technologie Przełomowe - Disruptive Technologies 2024 - Moodle ID: 35126 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35126				
Example issues/ example questions/ tasks being completed	<ul> <li>Comprise analysis of cases on the application of disruptive technology in social, business or government context</li> <li>Students will work in a group of five to complete these lab exercises and develop a presentation on the results of their analyses.</li> </ul>					
Work placement	Not applicable					

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