



Subject card

Subject name and code	Interactive visualisation, PG_00045377						
Field of study	Data Engineering						
Date of commencement of studies	October 2023		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	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		4.0		
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 inż. Igor Garnik				
	Teachers		dr inż. Igor Garnik				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		2.0		68.0	100
Subject objectives	The aim of the course is to acquire the skills needed to construct interactive audiovisual communication in business communication using IT tools and solutions.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U13] Is able to prepare, independently and in a team, studies and analyses appropriate for the field of data engineering.		Student has the ability to use various methods and tools for interactive information visualization.		[SU1] Assessment of task fulfilment		
	[K6_K04] takes responsibility for jointly performed tasks.		Student understands the need of teamwork in developing solutions for information visualization.		[SK1] Assessment of group work skills		
	[K6_W08] Knows the models and structure of the data mining process and their multidimensional analysis and can assess the results of such analyses		The student has an extended knowledge of interactive visualization methods of information visualization and their use in data analysis.		[SW1] Assessment of factual knowledge		
Subject contents	<p>Basics of digital processing of audiovisual materials.</p> <p>Visualization in the diagnosis, assessment and analysis of phenomena.</p> <p>Application of computer graphics and animation in information visualization.</p> <p>Dynamic data presentation in selected applications.</p> <p>Advanced visualization techniques in intra-organizational communication.</p>						
Prerequisites and co-requisites	Completion of the course: Visualization of economic data						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Team project	60.0%	100.0%
Recommended reading	Basic literature	Murray S., Interactive Data Visualization for the Web, 2nd Edition. O'Reilly Media 2017 Bergström, B., Essentials of visual communication. Laurence King Pub. 2008 D. L. Adamy, Preparing and Delivering Effective Technical Presentations, Artech House Publishers, Boston - London, 2001. S. Bienvenu, The Presentation Skills Workshop, Amacom, New York, 2000. J. Kupsch, P. R. Graves, Here"s How Create High-Impact Business Presentations, NTC/Contemporary Publishing Co., 1998. Rosenfeld L., Morville P.: Architektura informacji w serwisach internetowych. Wyd. Helion Warszawa 2003.	
	Supplementary literature	Austin, T., & Doust, R. (2007). <i>New Media in Graphic Design</i> . Harry N. Abrams, Inc	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	- interactive video presentations on websites - video tutorials as a form of intra-organizational communication - visualizations using 2D animation		
Work placement	Not applicable		

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