

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Informatization strategies, PG_00045371								
Field of study	Data Engineering								
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	5		ECTS credits			3.0			
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 Grażyna Musiatowicz-Podbiał							
	Teachers	dr Grażyna M	dbiał						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Semina		SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes include plan				Self-study SUM				
	Number of study hours	30		4.0		41.0		75	
Subject objectives	The aim of the course is to prepare students for developing enterprise informatization strategies, including definition of the current state and future state, and activities to realize strategic goals for a given process.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U03] analyses problems and creates appropriate models, data structures and algorithms (including heuristic and numerical ones), assesses their computational complexity, estimates errors of the received solutions		Student has the necessary skills to choose adequate methods and tools for the implementation of IT strategies.			[SU4] Assessment of ability to use methods and tools			
	[K6_K01] is aware of quickly changing trends and the resulting need for further education and self- improvement in the area of the performed profession of an engineer with IT and economic- financial skills.		Student is able to select the informatization strategy to the tasks performed in an enterprise			[SK5] Assessment of ability to solve problems that arise in practice			
	architecture, technologies and		Student possesses adequate knowledge about selection of information technology elements for the purpose of the IT strategy implementation.			[SW1] Assessment of factual knowledge			

Subject contents	<ul> <li>Informatization startegy definition,</li> <li>Strategic Alignment Model,</li> <li>Informatization strategy formulation process,</li> <li>Tools and method used for IT strategy: AS-IS analysis, SWOT, TO-BE definition, IT BSC, SMART goals definition, IT KPI's,</li> <li>Communication and resistance to change mitigation,</li> <li>IT Priorities definition,</li> <li>Monitoring tools implementation,</li> <li>Enterprise architecture frameworks,</li> <li>Enterprise architecture implementation (TOGAF),</li> <li>Risk management in IT strategy.</li> </ul>						
Prerequisites and co-requisites	Foundations of informatics						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Exam	50.0%	60.0%				
	Report	50.0%	40.0%				
Recommended reading	ommended reading Basic literature		<ul> <li>Albeladi K.S., Khan U.A., Khan P.M. (2014). Driving business value through effective IT strategy development. 2014 International Conference on Computing for Sustainable Global Development (INDIACom); https://ieeexplore.ieee.org/document/6828021.</li> <li>Chen D.Q., Mocker M., Preston D.S., Teubner A. (2010). Information systems strategy: reconceptualization, measurement, and implications, MIS Quarterly, 34(2), 233259,</li> <li>de Souza Bermejo P.H., Olímpio Tonelli A., Zambalde A.L., Leomar Todesco J. (2014). Towards an understanding of information technology strategy development based on knowledge management. Revista de Ciências Da Administração, 16(40), 139155.</li> <li>Drive Performance, Harvard Business Review (JanuaryFebruary 1992), ISSN 0017-8012, Retrieved 2020-01-15.</li> <li>Galliers, R. D., Leidner, D. E., &amp; Simeonova, B. (Eds.). (2020). Strategic information management: Theory and practice. Routledge.</li> <li>Materials attached to eCourse.</li> </ul>				
	Supplementary literature	<ul> <li>TOGAF framework, https://pubs doc/arch/index.html.</li> <li>ArchiMate, https://www.archima</li> </ul>	s.opengroup.org/architecture/togaf9- atetool.com/				
	eResources addresses	Adresy na platformie eNauczanie: Informatization Strategies 24_25 - Moodle ID: 39006 https://enauczanie.pg.edu.pl/moodle/course/view.ph					
Example issues/ example questions/ tasks being completed	<ul> <li>IT strategy definition and project,</li> <li>Analysis of the impact of IT on the company's efficiency</li> <li>Project of the target IT vision with the BSC (Balanced Score Card),</li> <li>Strategic goals definition (SMART technique),</li> <li>Project of monitoring and KPI's for the IT area</li> </ul>						
Work placement	Not applicable	Not applicable					

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