



## Subject card

Subject name and code	Informatization strategies, PG_00045371						
Field of study	Data Engineering						
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		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 Musiatowicz-Podbiał				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	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 in didactic classes included in study plan		Participation in consultation hours		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_W03] identifies veracious sources of information relevant to the analyzed issues		Student possesses adequate knowledge about selection of information technology elements for the purpose of the IT strategy implementation.		[SW1] Assessment of factual knowledge		
	[K6_U02] prepares and presents convincingly professional presentations of the results of undertaken activities, with their advanced interpretation		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_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values		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		
Subject contents	<ul style="list-style-type: none"><li>• Informatization strategy 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		
	Project report		50.0%		40.0%		
	Knowledge test exam		50.0%		60.0%		

Recommended reading	Basic literature	<ul style="list-style-type: none"> <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); <a href="https://ieeexplore.ieee.org/document/6828021">https://ieeexplore.ieee.org/document/6828021</a>.</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 (January/February 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 style="list-style-type: none"> <li>TOGAF framework, <a href="https://pubs.opengroup.org/architecture/togaf9-doc/arch/index.html">https://pubs.opengroup.org/architecture/togaf9-doc/arch/index.html</a>.</li> <li>ArchiMate, <a href="https://www.archimatetool.com/">https://www.archimatetool.com/</a></li> </ul>
	eResources addresses	Adresy na platformie eNauzanie:
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <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	

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