Subject card

Subject name and code	Informatization strategies, PG_00045371					
Field of study	Data Engineering					
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028	
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	• Informatization startegy definition, • Strategic Alignment Model, • Informatization strategy formulation process, • Tools and method used for IT strategy: AS-IS analysis, SWOT, TO-BE definition, IT BSC, SMART goals definition, IT KPI's, • Communication and resistance to change mitigation, • IT Priorities definition, • Monitoring tools implementation, • Enterprise architecture frameworks, • Enterprise architecture implementation (TOGAF), • Risk management in IT strategy.

Prerequisites and co-requisites	Foundations of informatics		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project's report	50.0%	40.0%
	Kowledge test exam	50.0%	60.0%

Recommended reading	Basic literature	• 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. • Chen D.Q., Mocker M., Preston D.S., Teubner A. (2010). Information systems strategy: reconceptualization, measurement, and implications, MIS Quarterly, 34(2), 233259, • 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. • Drive Performance, Harvard Business Review (JanuaryFebruary 1992), ISSN 0017-8012, Retrieved 2020-01-15. • Galliers, R. D., Leidner, D. E., & Simeonova, B. (Eds.). (2020). Strategic information management: Theory and practice. Routledge. • Materials attached to eCourse.
	Supplementary literature	• TOGAF framework, https://pubs.opengroup.org/architecture/togaf9-doc/arch/index.html. • ArchiMate, https://www.archimatetool.com/
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	• IT strategy definition and project, • Analysis of the impact of IT on the company's efficiency • Project of the target IT vision with the BSC (Balanced Score Card), • Strategic goals definition (SMART technique), • Project of monitoring and KPI's for the IT area	
Work placement	Not applicable	

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