GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Strategies for Information Systems, PG_00064474					
Field of study	Informatics					
Date of commencement of studies	February 2026		Academic year of realisation of subject		2026/2027	
Education level	second-cycle studies		Subject group		Optional subject group Specialty 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	2		Language of instruction		Polish	
Semester of study	3		ECTS credits		3.0	
Learning profile	general academic profile		Assessment form		exam	
Conducting unit	Department Of Software Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej					
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Agnieszka Landowska			
	Teachers		dr hab. inż. Agnieszka Landowska			

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	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	6.0	39.0	75

Subject objectives	Purpose of the subject is to change student's perspective on IT projects and to show, how projects are managed and done from the perspective of its customers. Software aquisition and its relation to strategic planning is descibed as well as financial and time perspective is explored.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U08] while identifying and formulating engineering tasks specifications and solving these tasks, can: - apply analytical, simulation and experimental methods, - notice their systemic and non-technical aspects, - make a preliminary economic assessment of suggested solutions and engineering work	Student demonstates use of Critical Success Factor method.	[SU1] Assessment of task fulfilment
	[K7_U43] can apply information technologies in market economy and information society conditions as well as algorithmize and computerize cognitive and decision-making processes in other areas of knowledge	Student defines IT strategy for organization.	[SU1] Assessment of task fulfilment
	[K7_W11] knows and understands, to an increased extent, the general principles of creation and development of forms of individual entrepreneurship and the economic, legal and other conditions of various types of activities related to the awarded qualification, including the principles of protection of industrial property and copyright law	Student understands legal basics of IT organisation in an enterprise	[SW3] Assessment of knowledge contained in written work and projects
	[K7_U12] is able, to an increased extent, to analyze the operation of components and systems related to the field of study, as well as to measure their parameters and study their technical characteristics, and to plan and carry out experiments related to the field of study, including computer simulations, interpret the obtained results and draw conclusions	Student can analyse strategy and organisational structure of an organisation with the purpose of planning IT support.	[SU1] Assessment of task fulfilment

Subject contents	1. Definition of information strategy, features of IT investments, problems in IT investments 2. Enterprise business strategy analysis - mission statement, goal hierarchy, market shares 3. Enterprise business strategy analysis - strategy type model, organization structure model 4. Strategic planning of IT (information technology) and IS (information systems) 5. Information strategy - case study 6. Classification of information systems 7. Enterprise information systems - MRP, ERP, SCM. CRM systems. 8. Financial analysis of IT investments 9. Making decisions about information systems. CSF method. 10. Software aquisition process - problems overview 11. Software aquisition rules-of-thumb 12. Requirements management 13. Software copyright problem 14. Configuration management in software acquisition 15. Schedule and risk management 16. Software maintanance problems

Prerequisites and co-requisites	No requirements

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	50.0%	50.0%
	Written exam	50.0%	50.0%

Recommended reading	Basic literature	1. Carr Nicholas, IT doesnt matter, Harvard Business Review, May 2003. 2. Gray Paul, Managers Guide to Making Decisions about Information Systems, Wiley&Sons, 2006
	Supplementary literature	1. Kaplan, R. and Norton, D., "Using the balanced scorecard as a strategic management system", Harvard Business Review, January-February 1996a, pp. 75-85 2. M.J. Earl, Management Strategies for Information Technology, Prentice Hall, 1989 3. Parker, M., Strategic transformation and information technology, Prentice Hall, 1996 4 Wiseman, Information Economic: a practical approach to valuing information systems, Journal of Information Technology, 1992, 7
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	IT strategy planning

Work placement	Not applicable

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