GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Strategies for Information Systems, PG_00047776		
Field of study	Informatics		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	4.0
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 mgr Krzysztof Wyrzykowski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	12.0	0.0	0.0	15.0	0.0	27

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	27	10.0	63.0	100

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_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_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

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

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Written exam</td><td>50.0%</td><td>50.0%</td></tr>
<tr><td>Project</td><td>50.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Carr Nicholas, IT doesn’t matter, Harvard Business Review, May 2003.
2. Gray Paul, Manager’s Guide to Making Decisions about Information Systems, Wiley&Sons, 2006</td></tr>
<tr><td>Supplementary literature</td><td>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</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">IT strategy planning</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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