GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Software Project Management, PG_00048276		
Field of study	Informatics		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2022/2023
Education level	second-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	1	Language of instruction	Polish
Semester of study	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jakub Miler	
	Teachers	dr inż. Jakub Miler	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	15.0	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	16.0	50

Subject objectives

- To understand the needs and goals of software project management
- To learn selected areas of project management based on PRINCE2 and PMI's PMBoK methodologies
- To learn techniques and tools of effective project management

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W09] Knows and understands, to an increased extent, the economic, legal and other conditions of various types of activities related to the given qualification, including the principles of protection of industrial property and copyright.	Student includes the economic and legal factors in the project business case Student develope the project budget Student analyzes the project risk	[SW3] Assessment of knowledge contained in written work and projects
[K7_W05] Knows and understands, to an increased extent, methods of process and function support, specific to the field of study.	Student names the project management methodologies Student lists the areas of project management	[SW1] Assessment of factual knowledge
[K7_W42] Knows and understands, to an increased extent, the principles and trends in the analysis and design of local and distributed IT systems and the basics of computer modeling and computerization of complex cognitive and decision-making processes.	Student develops the business case and software project feasibility study Student builds the project schedule Student optimizes the project schedule	[SW3] Assessment of knowledge contained in written work and projects
[K7_U11] can manage team work	Student organizes the project team Student does the project management tasks in a team	[SU1] Assessment of task fulfilment
[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems	Student applies systematic approach to the project management Student evaluates the quality of team's and their own work	[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work

<table>
<tr><td>Subject contents</td><td>Main topics:

1. Introduction
2. Project context
3. Project management methodologies
4. Areas of software project management
5. Project business case
6. Feasibility study
7. Risk management - terms & process
8. Risk management - risk assessment and mitigation
9. Human resources management - project manager
10. Human resources management - motivation and delegation
11. Human resources management - team building
12. Stakeholder communication - identification and analysis
13. Stakeholder communication - planning
14. Planning - overall project plan
15. Planning - project estimation
16. Scheduling - identification and estimation of tasks
17. Scheduling - schedule desing
18. Scheduling - schedule optimization

Additional topics:

1. Project Management Office
2. Project portfolio management
3. Controlling the project</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><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>51.0%</td><td>50.0%</td></tr>
<tr><td>Project</td><td>51.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td>Recommended reading</td><td>Basic literature</td><td>1. A Guide to the Project Management Body of Knowledge (PMBoK) 6th edition, Project Management Institute, 2017
2. Axelos, Managing Successful Projects with PRINCE2® 2017 Edition, TSO, 2017
3. OGC (Office of Government Commerce), Managing Successful Projects with PRINCE2, TSO, 2009
4. R. S. Pressman, B. R. Maxim, Software Engineering. A Practicioner's Approach, wyd. 8, McGraw-Hill Education, 2014
5. Korczowski, Zarzadzanie ryzykiem w projektach informatycznych. Teoria i praktyka, Helion, 2010
6. ISO 31000:2009 International Standard: Risk management -- Principles and guidelines, ISO, 2009
7. Stowarzyszenie Project Management Polska, Polskie Wytyczne Kompetencji IPMA®, wersja 3.0, 2009
8. M. R. Belbin, Twoja rola w zespole, Gdanskie Wydawnictwo Psychologiczne, 2008
9. Brooks F.: Mityczny osobomiesiąc, WNT 2000
10. S. Spałek, M. Bodych, PMO. Praktyka zarzadzania projektami i portfelem projektów w organizacji, Helion, 2012</td></tr>
</table>

	Supplementary literature	1. E. Hasted, Sprzedaj swój software, Helion, 2007 2. M. Flasiński, Zarządzanie projektami informatycznymi, PWN, 2006 3. Z. Szyjewski, Metodyki zarzadzania projektami informatycznymi, Placet, 2004 4. K. Frączkowski, Zarządzanie projektem informatycznym, Oficyna Wydawnicza Politechniki Wrocławskiej, 2003 5. T. DeMarco, T. Lister: Czynnik ludzki, WNT, 2002 6. T. DeMarco, Zdążyć przed terminem - opowieść o zarządzaniu projektami, Studio Emka, 2002 E. Yourdon, Marsz ku klęsce, WNT 2000 7. J. Górski (red.), Inżynieria oprogramowania, wyd. II, MIKOM, 2000 8. M. Cotterell, B. Hughes, Software Project Management, Thomson Publishing, 1995 9. R. Thomsett, Third Wave Project Management, Prentice Hall, 1993 10. Management of Risk: Guidance for Practitioners 2010, Office of Government Commerce, The Stationery Office, 2010 11. C. L. Pritchard, Zarzadzanie ryzykiem w projektach - teoria i praktyka, WIG-Press, 2002 12. E. M. Brown, Y. Y. Chong, Zarzadzanie ryzykiem projektu, Oficyna Ekonomiczna, 2001 13. ISO Guide 73:2009 Risk management – Vocabulary, ISO, 2009 14. Galagher B. P., Software Acquisition Risk Management Key Process Area (KPA) – A Guidebook Version 1.02, CMU/SEI-99-HB-001, Carnegie Mellon University, 1999 15. MSF Risk Management Discipline v.1.1, Microsoft Solutions Framework Whitepaper, 2004 16. Organizational Culture Assessment Instrument, http://www.ocai-online.com/ 17. The Standard for Portfolio Management, 2nd Edition, Project Management Institute, USA, 2008 18. B. Hobbs, The Multi-Project PMO. A Global Analysis of Current State of Practice, PMI, 2007 19. B. Hobbs, Report on the Survey: The Reality on Project Management Offices, PMI, 2006
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Project achievements: • Business case • Risk assessment • Team building and communication with stakeholders • Detailed schedule	
Work placement	Not applicable	