



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	<ul style="list-style-type: none">To understand the needs and goals of software project managementTo learn selected areas of project management based on PRINCE2 and PMI's PMBoK methodologiesTo 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 develops 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		

Subject contents	<p>Main topics:</p> <ol style="list-style-type: none">1. Introduction2. Project context3. Project management methodologies4. Areas of software project management5. Project business case6. Feasibility study7. Risk management - terms & process8. Risk management - risk assessment and mitigation9. Human resources management - project manager10. Human resources management - motivation and delegation11. Human resources management - team building12. Stakeholder communication - identification and analysis13. Stakeholder communication - planning14. Planning - overall project plan15. Planning - project estimation16. Scheduling - identification and estimation of tasks17. Scheduling - schedule desing18. Scheduling - schedule optimization <p>Additional topics:</p> <ol style="list-style-type: none">1. Project Management Office2. Project portfolio management3. Controlling the project											
Prerequisites and co-requisites												
Assessment methods and criteria	<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>	Subject passing criteria	Passing threshold	Percentage of the final grade	Written exam	51.0%	50.0%	Project	51.0%	50.0%		
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Written exam	51.0%	50.0%										
Project	51.0%	50.0%										
Recommended reading	<p>Basic literature</p>	<ol style="list-style-type: none">1. A Guide to the Project Management Body of Knowledge (PMBok) 6th edition, Project Management Institute, 20172. Axelos, Managing Successful Projects with PRINCE2® 2017 Edition, TSO, 20173. OGC (Office of Government Commerce), <i>Managing Successful Projects with PRINCE2</i>, TSO, 20094. R. S. Pressman, B. R. Maxim, Software Engineering. A Practitioner's Approach, wyd. 8, McGraw-Hill Education, 20145. Korczowski, Zarządzanie ryzykiem w projektach informatycznych. Teoria i praktyka, Helion, 20106. ISO 31000:2009 International Standard: Risk management -- Principles and guidelines, ISO, 20097. Stowarzyszenie Project Management Polska, Polskie Wytyczne Kompetencji IPMA®, wersja 3.0, 20098. M. R. Belbin, Twoja rola w zespole, Gdanskie Wydawnictwo Psychologiczne, 20089. Brooks F.: Mityczny osobomiesiąc, WNT 200010. S. Spalek, M. Bodych, PMO. Praktyka zarządzania projektami i portfelem projektów w organizacji, Helion, 2012										

	Supplementary literature	<ol style="list-style-type: none"> 1. E. Hasted, Sprzedaj swój software, Helion, 2007 2. M. Fłasiński, Zarządzanie projektami informatycznymi, PWN, 2006 3. Z. Szyjewski, Metodyki zarządzania projektami informatycznymi, Placet, 2004 4. K. Frączkowski, Zarządzanie projektem informatycznym, Oficyna Wydawnicza Politechniki Wrocławskiej, 2003 5. T. DeMarco, T. Lister: Czynniki ludzkie, WNT, 2002 6. T. DeMarco, Zdażyć przed terminem - opowieść o zarządzaniu projektami, Studio Emka, 2002 7. E. Yourdon, Marsz ku klęsce, WNT 2000 8. J. Górski (red.), Inżynieria oprogramowania, wyd. II, MIKOM, 2000 9. M. Cotterell, B. Hughes, Software Project Management, Thomson Publishing, 1995 10. R. Thomsett, Third Wave Project Management, Prentice Hall, 1993 11. Management of Risk: Guidance for Practitioners 2010, Office of Government Commerce, The Stationery Office, 2010 12. C. L. Pritchard, Zarządzanie ryzykiem w projektach - teoria i praktyka, WIG-Press, 2002 13. E. M. Brown, Y. Y. Chong, Zarządzanie ryzykiem projektu, Oficyna Ekonomiczna, 2001 14. ISO Guide 73:2009 Risk management – Vocabulary, ISO, 2009 15. 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 16. MSF Risk Management Discipline v.1.1, Microsoft Solutions Framework Whitepaper, 2004 17. Organizational Culture Assessment Instrument, http://www.ocai-online.com/ 18. The Standard for Portfolio Management, 2nd Edition, Project Management Institute, USA, 2008 19. B. Hobbs, The Multi-Project PMO. A Global Analysis of Current State of Practice, PMI, 2007 20. 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	<p>Project achievements:</p> <ul style="list-style-type: none"> • Business case • Risk assessment • Team building and communication with stakeholders • Detailed schedule 	
Work placement	Not applicable	