



Subject card

Subject name and code	Software Project Management, PG_00048276						
Field of study	Informatics						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
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_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			[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills		
	[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_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_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_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			

Subject contents	<p>Main topics:</p> <ol style="list-style-type: none"> 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 <p>Additional topics:</p> <ol style="list-style-type: none"> 1. Project Management Office 2. Project portfolio management 3. Controlling the project 											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 815 794 842">Subject passing criteria</th> <th data-bbox="799 815 1141 842">Passing threshold</th> <th data-bbox="1145 815 1490 842">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 848 794 875">Project</td> <td data-bbox="799 848 1141 875">51.0%</td> <td data-bbox="1145 848 1490 875">50.0%</td> </tr> <tr> <td data-bbox="453 882 794 909">Written exam</td> <td data-bbox="799 882 1141 909">51.0%</td> <td data-bbox="1145 882 1490 909">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project	51.0%	50.0%	Written exam	51.0%	50.0%
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Project	51.0%	50.0%										
Written exam	51.0%	50.0%										
Recommended reading	Basic literature	<ol style="list-style-type: none"> 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), <i>Managing Successful Projects with PRINCE2</i>, TSO, 2009 4. R. S. Pressman, B. R. Maxim, Software Engineering. A Practitioner's Approach, wyd. 8, McGraw-Hill Education, 2014 5. Korczowski, Zarządzanie 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. 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	<p>Adresy na platformie eNauczanie:</p> <p>Zarządzanie projektem informatycznym 2023/2024 - Moodle ID: 36226 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=36226</p>
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	