



## Subject card

Subject name and code	Software Project Management, PG_00048276						
Field of study	Informatics						
Date of commencement of studies	February 2025		Academic year of realisation of subject		2024/2025		
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	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"><li>To understand the needs and goals of software project management</li><li>To learn selected areas of project management based on PRINCE2 and PMI's PMBoK methodologies</li><li>To learn techniques and tools of effective project management</li></ul>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W10] knows and understands, to an increased extent, the basic processes occurring in the life cycle of equipment, objects and technical systems, as well as methods of supporting processes and functions, specific to the field of study	Student describes the project management methodologies Student lists the areas of project management	[SW1] Assessment of factual knowledge
	[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 includes the market analysis in the project business case Student analyzes project data and makes managerial decisions	[SW3] Assessment of knowledge contained in written work and projects
	[K7_W101] is able to make an in-depth identification of key objects and phenomena related to the field of study, as well as theories that describe them and applicable analytical and design methods	Student develops the business case and software project feasibility study Student builds the project schedule	[SW3] Assessment of knowledge contained in written work and projects
[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	
Subject contents	<p>Main topics:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Project context</li> <li>3. Project management methodologies</li> <li>4. Areas of software project management</li> <li>5. Project business case</li> <li>6. Feasibility study</li> <li>7. Risk management - terms &amp; process</li> <li>8. Risk management - risk assessment and mitigation</li> <li>9. Human resources management - project manager</li> <li>10. Human resources management - motivation and delegation</li> <li>11. Human resources management - team building</li> <li>12. Stakeholder communication - identification and analysis</li> <li>13. Stakeholder communication - planning</li> <li>14. Planning - overall project plan</li> <li>15. Planning - project estimation</li> <li>16. Scheduling - identification and estimation of tasks</li> <li>17. Scheduling - schedule desing</li> <li>18. Scheduling - schedule optimization</li> </ol> <p>Additional topics:</p> <ol style="list-style-type: none"> <li>1. Project Management Office</li> <li>2. Project portfolio management</li> <li>3. Controlling the project</li> </ol>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	51.0%	50.0%
	Written exam	51.0%	50.0%

Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. A Guide to the Project Management Body of Knowledge (PMBok) 6th edition, Project Management Institute, 2017</li> <li>2. Axelos, Managing Successful Projects with PRINCE2® 2017 Edition, TSO, 2017</li> <li>3. OGC (Office of Government Commerce), <i>Managing Successful Projects with PRINCE2</i>, TSO, 2009</li> <li>4. R. S. Pressman, B. R. Maxim, Software Engineering. A Practitioner's Approach, wyd. 8, McGraw-Hill Education, 2014</li> <li>5. Korczowski, Zarządzanie ryzykiem w projektach informatycznych. Teoria i praktyka, Helion, 2010</li> <li>6. ISO 31000:2009 International Standard: Risk management -- Principles and guidelines, ISO, 2009</li> <li>7. Stowarzyszenie Project Management Polska, Polskie Wytyczne Kompetencji IPMA®, wersja 3.0, 2009</li> <li>8. M. R. Belbin, Twoja rola w zespole, Gdanskie Wydawnictwo Psychologiczne, 2008</li> <li>9. Brooks F.: Mityczny osobomiesiąc, WNT 2000</li> <li>10. S. Spalek, M. Bodych, PMO. Praktyka zarządzania projektami i portfelem projektów w organizacji, Helion, 2012</li> </ol>
	Supplementary literature	<ol style="list-style-type: none"> <li>1. E. Hasted, Sprzedaj swój software, Helion, 2007</li> <li>2. M. Flasiński, Zarządzanie projektami informatycznymi, PWN, 2006</li> <li>3. Z. Szyjewski, Metodyki zarządzania projektami informatycznymi, Placet, 2004</li> <li>4. K. Frączkowski, Zarządzanie projektem informatycznym, Oficyna Wydawnicza Politechniki Wrocławskiej, 2003</li> <li>5. T. DeMarco, T. Lister: Czynniki ludzkie, WNT, 2002</li> <li>6. T. DeMarco, Zdążyć przed terminem - opowieść o zarządzaniu projektami, Studio Emka, 2002</li> <li>7. E. Yourdon, Marsz ku klęsce, WNT 2000</li> <li>8. J. Górski (red.), Inżynieria oprogramowania, wyd. II, MIKOM, 2000</li> <li>9. M. Cotterell, B. Hughes, Software Project Management, Thomson Publishing, 1995</li> <li>10. R. Thomsett, Third Wave Project Management, Prentice Hall, 1993</li> <li>11. Management of Risk: Guidance for Practitioners 2010, Office of Government Commerce, The Stationery Office, 2010</li> <li>12. C. L. Pritchard, Zarządzanie ryzykiem w projektach - teoria i praktyka, WIG-Press, 2002</li> <li>13. E. M. Brown, Y. Y. Chong, Zarządzanie ryzykiem projektu, Oficyna Ekonomiczna, 2001</li> <li>14. ISO Guide 73:2009 Risk management – Vocabulary, ISO, 2009</li> <li>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</li> <li>16. MSF Risk Management Discipline v.1.1.1, Microsoft Solutions Framework Whitepaper, 2004</li> <li>17. Organizational Culture Assessment Instrument, <a href="http://www.ocai-online.com/">http://www.ocai-online.com/</a></li> <li>18. The Standard for Portfolio Management, 2nd Edition, Project Management Institute, USA, 2008</li> <li>19. B. Hobbs, The Multi-Project PMO. A Global Analysis of Current State of Practice, PMI, 2007</li> <li>20. B. Hobbs, Report on the Survey: The Reality on Project Management Offices, PMI, 2006</li> </ol>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Project achievements:</p> <ul style="list-style-type: none"> <li>• Business case</li> <li>• Risk assessment</li> <li>• Team building and communication with stakeholders</li> <li>• Detailed schedule</li> </ul>	
Work placement	Not applicable	

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