



Subject card

Subject name and code	PROJECT MANAGEMENT METHODS AND TOOLS, PG_00071730						
Field of study	Management						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2027/2028	
Education level	first-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	2	Language of instruction				English	
Semester of study	4	ECTS credits				5.0	
Learning profile	general academic profile	Assessment form				exam	
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Zielińska					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	45.0	0.0	0.0	0.0	60
	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	60	3.0		62.0	125	
Subject objectives	The objective of the course is to develop the ability to apply project management methods and tools, including IT tools supporting project planning, monitoring, and execution, as well as to make project-related decisions based on integrated information.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U07] uses advanced information technologies to enhance data analysis and management processes.	Is able to apply IT tools supporting project management to plan, monitor, and execute projects, as well as to analyze project performance.			[SU4] Assessment of ability to use methods and tools		
	[K6_W05] possesses advanced knowledge in integrating data from various sources and in the methods that enable a comprehensive analysis of contemporary management issues.	Knows and understands project management methods and tools, including the use of project-related information in the process of planning, monitoring, and executing projects.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions.	Is ready to make project-related decisions based on available information and analysis results, in particular through the execution of project tasks.			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	<p>Course content – lecture</p> <ul style="list-style-type: none"> • The role of methods and tools in project management • Project planning methods using tools (scheduling, task dependencies) • Methods for organizing project team work and task management • Methods for monitoring project progress and analyzing deviations • Risk management methods in projects • Decision-support methods (e.g., logical framework, alternatives analysis) • Use of project-related information in decision-making • Integration of methods and tools throughout the project life cycle <p>Course content – exercises</p> <ul style="list-style-type: none"> • Analysis of project problems and identification of possible solutions • Application of project planning and organization methods • Monitoring project progress and analyzing deviations • Analysis of project risks and development of mitigation actions • Application of decision-support methods • Use of project-related information to assess project situations • Development and justification of project decisions • Execution of project tasks using selected tools <p>• celowo użyłam application zamiast use bardziej akademickie</p> <p>• selected tools daje Ci elastyczność</p> <p>• spójne z efektem U07 (narzędzia), ale nie IT-heavy</p> <p>• dobre pod ćwiczenia i akredytację</p> <p>Co dalej?</p> <p>Możemy teraz:</p> <ul style="list-style-type: none"> • przygotować przykładowe zadania / pytania (problemowe) • albo przejść do rubryk oceniania (ETAP 5) <p>Daj znać</p>														
Prerequisites and co-requisites	Basic knowledge of project management, including key concepts and processes related to project planning and execution.														
Assessment methods and criteria	<table border="1" data-bbox="448 954 1497 1137"> <thead> <tr> <th data-bbox="448 954 794 987">Subject passing criteria</th> <th data-bbox="794 954 1141 987">Passing threshold</th> <th data-bbox="1141 954 1497 987">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 987 794 1021">Case study analysis</td> <td data-bbox="794 987 1141 1021">60.0%</td> <td data-bbox="1141 987 1497 1021">15.0%</td> </tr> <tr> <td data-bbox="448 1021 794 1099">Problem-based test assessing understanding of project management methods and tools</td> <td data-bbox="794 1021 1141 1099">60.0%</td> <td data-bbox="1141 1021 1497 1099">50.0%</td> </tr> <tr> <td data-bbox="448 1099 794 1137">Team project</td> <td data-bbox="794 1099 1141 1137">60.0%</td> <td data-bbox="1141 1099 1497 1137">35.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Case study analysis	60.0%	15.0%	Problem-based test assessing understanding of project management methods and tools	60.0%	50.0%	Team project	60.0%	35.0%
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Problem-based test assessing understanding of project management methods and tools	60.0%	50.0%													
Team project	60.0%	35.0%													
Recommended reading	Basic literature	<ul style="list-style-type: none"> • Project Management Institute (PMI). (2021). <i>A Guide to the Project Management Body of Knowledge (PMBOK® Guide)</i> (7th ed.). • Kerzner, H. (2022). <i>Project Management: A Systems Approach to Planning, Scheduling, and Controlling</i> (13th ed.). 													
	Supplementary literature	<ul style="list-style-type: none"> • Meredith, J. R., Mantel, S. J. (2017). <i>Project Management: A Managerial Approach</i> (10th ed.). • Stellman, A., Greene, J. (2014). <i>Learning Agile</i>. O'Reilly Media. 													
	eResources addresses														
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> • Propose a solution to project delays based on available project data. • Develop a project plan using selected methods and tools, considering task dependencies. • Analyze project risks and propose mitigation actions. • Compare two alternative solutions to a project problem and justify your choice. • Based on project progress data, identify deviations and propose corrective decisions. 														
Practical activities within the subject	Not applicable														

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