

Subject card

Subject name and code	, PG_00069829								
Field of study	Nowe technologie i psychologia w zarządzaniu projektami								
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026				
Education level	second-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery		e-learning				
Year of study	1		Language of instruction		Polish Possible guest lecture in English				
Semester of study	2		ECTS credits		3.0				
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Division of Manufacturing and Production Engineering -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr inż. Dominika Zakrzewska dr inż. Dominika Zakrzewska dr inż. Ewa Kozłowska dr inż. Aleksandra Wiśniewska						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
,,	Number of study hours	27.0	0.0	0.0	0.0		0.0	27	
	E-learning hours included: 27.0								
	eNauczanie source addresses:								
	Moodle ID: 2210 Nowe technologie i psychologia w zarządzaniu projektami https://enauczanie.pg.edu.pl/2025/course/view.php?id=2210								
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	27		0.0		0.0		27	
Subject objectives	The aim of the course is to prepare students to effectively manage projects in a dynamic digital environment by learning about modern management methodologies and standards, using tools based on new technologies (including artificial intelligence), and developing the psychological and social skills necessary for a leader, such as motivating a team, coping with stress, resolving conflicts, and developing emotional intelligence.								

Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice	Student interprets the social, economic and legal conditions of project management in the digital age, including issues related to intellectual property protection, copyright, leadership responsibility and the impact of new technologies on team organisation, and is able to take them into account in management practice.	[SW1] Ocena wiedzy faktograficznej	
	[K7_W04] demonstrates knowledge covering selected topics of advanced specific knowledge, in particular methods, techniques, tools specific to Mechanics and Mechanical Engineering processes, systems and equipment	Student demonstrates knowledge covering selected issues in the field of advanced methods, techniques and tools used in project management in the digital age, including project methodologies, quality standards (ISO), quality control and assessment tools, as well as the use of artificial intelligence in data analysis and risk management.	[SW2] Ocena wiedzy zawartej w prezentacji [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym	
	[K7_U01] utilizes information obtained from the literature and other sources in the field of Mechanics and Mechanical Engineering and presents and analyses the results of solutions to technical problems in this field	Student is able to use information obtained from professional literature and other sources in the field of project management, new technologies and psychology in teamwork, as well as present and analyse the results of solutions to problems related to management practice and select appropriate methods for their verification.	[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU2] Ocena umiejętności analizy informacji	
Subject contents				
	2. Project methodologies compariso			
Prerequisites	ISO and quality standards as the Quality control in projects audits, Al as support for leaders from dat Psychology of the leader and tear Emotional intelligence in the work	foundation of management. documentation, quality metrics. a analysis to risk management. n motivation, conflict resolution, stres	ss management.	
Prerequisites and co-requisites	3. ISO and quality standards as the4. Quality control in projects audits,5. Al as support for leaders from dat6. Psychology of the leader and teal	foundation of management. documentation, quality metrics. a analysis to risk management. n motivation, conflict resolution, stres	ss management.	
and co-requisites Assessment methods	3. ISO and quality standards as the 4. Quality control in projects audits, 5. Al as support for leaders from dat 6. Psychology of the leader and tear 7. Emotional intelligence in the work Not applicable Subject passing criteria	foundation of management. documentation, quality metrics. a analysis to risk management. m motivation, conflict resolution, strest of a leader. Passing threshold	Percentage of the final grade	
and co-requisites	S. ISO and quality standards as the 4. Quality control in projects audits, 5. Al as support for leaders from dat 6. Psychology of the leader and tear 7. Emotional intelligence in the work Not applicable	foundation of management. documentation, quality metrics. a analysis to risk management. n motivation, conflict resolution, strest of a leader. Passing threshold 60.0%	Percentage of the final grade	
and co-requisites Assessment methods	3. ISO and quality standards as the 4. Quality control in projects audits, 5. Al as support for leaders from dat 6. Psychology of the leader and teat 7. Emotional intelligence in the work Not applicable Subject passing criteria Passing the test Basic literature	Passing threshold 60.0% Passing threshold 60.0% Kerzner, H. (2017). Projektmanager Planung, Terminierung und Kontroll PMI (2021). Ein Leitfaden zum Proje (PMBOK® Guide), 7. Auflage. Projekt Highsmith, J. (2013). Agiles Projekt schaffen. Addison-Wesley. Marr, B. (2021). Künstliche Intellige Unternehmen KI und maschinelles leinsetzten. Wiley. Goleman, D., Boyatzis, R. & McKeekraft der emotionalen Intelligenz en Press. Northouse, P. G. (2021). Führung: Publications. Robbins, S. P. und Judge, T. A. (20 Pearson. ISO 9001:2015 Qualitätsmanagemeinternationale Organisation für Norr	Percentage of the final grade 100.0% ment: Ein systemischer Ansatz für e. Wiley. ektmanagement-Wissensbestand ect Management Institute. management: Innovative Produkte nz in der Praxis: Wie 50 Lernen zur Problemlösung e., A. (2013). Primal Leadership: Die tfesseln. Harvard Business Review Theorie und Praxis. Sage 19). Organisationsverhalten. entsysteme Anforderungen. nung.	
and co-requisites Assessment methods and criteria	3. ISO and quality standards as the 4. Quality control in projects audits, 5. Al as support for leaders from dat 6. Psychology of the leader and teal 7. Emotional intelligence in the work Not applicable Subject passing criteria Passing the test	roundation of management. documentation, quality metrics. a analysis to risk management. m motivation, conflict resolution, strest of a leader. Passing threshold 60.0% Kerzner, H. (2017). Projektmanager Planung, Terminierung und Kontroll PMI (2021). Ein Leitfaden zum Proje (PMBOK® Guide), 7. Auflage. Projekt schaffen. Addison-Wesley. Marr, B. (2021). Künstliche Intellige Unternehmen KI und maschinelles leinsetzten. Wiley. Goleman, D., Boyatzis, R. & McKeek Kraft der emotionalen Intelligenz en Press. Northouse, P. G. (2021). Führung: Publications. Robbins, S. P. und Judge, T. A. (20 Pearson. ISO 9001:2015 Qualitätsmanagement	Percentage of the final grade 100.0% ment: Ein systemischer Ansatz für e. Wiley. ektmanagement-Wissensbestand ect Management Institute. management: Innovative Produkte nz in der Praxis: Wie 50 Lernen zur Problemlösung e, A. (2013). Primal Leadership: Die tfesseln. Harvard Business Review Theorie und Praxis. Sage 19). Organisationsverhalten. entsysteme Anforderungen. nung. 20). The Scrum Guide: The rg. c of Project Management. Periañez-Cañadillas, I. (2018). Excellence. Routledge. b. Working with Al: Real Stories of Press.	

tasks being completed	Digitisation and its impact on design processes. Comparison of methodologies: traditional (PMBOK, PRINCE2) and agile (Agile, Scrum). ISO 9001 and other quality standards in project management. Quality control methods and tools audit, report, metrics. The role of artificial intelligence in risk analysis and decision making. Leadership psychology team management styles. Emotional intelligence and leadership effectiveness.
Practical activites within the subject	Not applicable

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