University of Gdańsk

Subject card

Subject name and code	Knowledge Management in Projects in the Age of AI, PG_00177910		
Field of study	Management		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Master's studies	Subject group	Obligatory subject group in the field of study 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	Polish
Semester of study	4	ECTS credits	5.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Organisation and Management -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Agnieszka Szpitter	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	30.0	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	4.0	61.0	125

Subject objectives

Knowledge Management in Projects in the AI Era

The goal of the "Knowledge Management in Projects in the AI Era" module is to **deliver contemporary and crucial knowledge** on this topic within business management. It aims to **familiarize students with the concepts, terminology, methods, and practices** related to knowledge management in projects during the age of artificial intelligence.

This course addresses real market demands; companies are actively seeking specialists who understand how to leverage **AI for knowledge management**, including project knowledge. It prepares students for the challenges of the future. Artificial intelligence is revolutionizing how we work and manage projects. This course cultivates **critical thinking, problem-solving, collaboration, and adaptability to new technologies** competencies highly valued in the digital age.

The course **combines theory with practice**, applying knowledge to real-world projects. It emphasizes the **strategic importance of knowledge**, recognizing that in the AI era, knowledge is becoming one of an organization's most crucial assets.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[ZARZMU2_K01] The student is prepared to gain and enhance the knowledge required to solve both cognitive and practical problems, particularly in the areas of management and quality sciences. Additionally, the student is capable of critically evaluating the knowledge and content received and will seek guidance from experts if they encounter difficulties in resolving a problem independently.	Upon completing the course, the student will be able to: • Demonstrate a proactive attitude in acquiring and deepening knowledge, particularly in the fields of management and quality sciences, needed to solve complex cognitive and practical problems. • Critically assess the reliability and adequacy of existing knowledge and information from various sources. • Be open to new perspectives and actively seek solutions that go beyond standard frameworks. • Recognize their own limitations in terms of knowledge and skills, and, when necessary, effectively seek expert opinions and utilize their support in solving difficult problems. • Take responsibility for their own intellectual and professional development, striving for continuous improvement.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report [SK5] implementation of a problem task
[ZARZMU2_U12] The student can use technologies and IT systems (including advanced ones) to support the execution of management-related tasks.	Upon completing the course, the student will be able to: • Proficiently use diverse AI-powered IT tools to effectively support management processes. • Select and justify the application of specific AI tools for solving management problems (including project management). • Critically evaluate the potential and limitations of new IT technologies in the context of their use in management. • Utilize IT tools for collecting, analyzing, visualizing, and presenting management data. • Develop skills for self-learning and adapting to the dynamically changing environment of IT tools in management.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[ZARZMU2_W01] The student has an in-depth knowledge and understanding of the theories in management, quality sciences, economics, and finance and their role within the social sciences. This knowledge is particularly relevant for making informed business decisions.	Upon completing the course, the student will be able to: • Articulate the position and significance of these theories within the broader social sciences framework. • Demonstrate a deep understanding of how these theories specifically inform and influence business decision-making processes. • Evaluate the relevance and applicability of various theoretical perspectives from management, quality, economics, and finance when addressing complex business challenges. • Integrate knowledge from these diverse fields to develop holistic insights into organizational functioning and strategic choices.	[SW4] test/exam - oral or written

Course outcome	Subject outcome	Method of verification
[ZARZMU2_W08] The student possesses a deep understanding of management processes, including their objectives, specificity, complexity, and how they relate to other organizational processes, alongside the challenges and dilemmas presented by a dynamically changing environment.	Upon completing the course, the student will be able to: • Deeply analyze the goals, specifics, and complexities of key management processes (e.g., planning, organizing, motivating, controlling) in various types of organizations. • Identify and assess the main challenges and dilemmas accompanying management processes, stemming from the dynamically changing business environment (e.g., globalization, digitalization, market uncertainty). • Propose adequate strategies and solutions in response to the identified challenges and dilemmas in management processes. • Critically evaluate the impact of environmental variability on the effectiveness and efficiency of management processes and adapt their approach accordingly.	[SW4] test/exam - oral or written
[ZARZMU2_U04] The student can effectively select, use, adapt, or create methods and tools from management, quality sciences, economics, and finance for decision-making.	Upon completing the course, the student will be able to: • Properly utilize and adapt existing methods and tools to specific, often non-standard, decision-making situations. • Develop or modify new analytical and decision-making methods and tools when standard approaches prove insufficient. • Critically evaluate the effectiveness and limitations of applied methods and tools in the context of decision-making efficiency.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task

Subject contents	Here are the lecture and tutorial contents for the course: 1. **Introduction to Knowledge Management in Projects in the AI Era.** Definitions and significance of knowledge management in organizations and projects. 2. **Evolution of Knowledge Management** from traditional methods to the challenges and opportunities of the artificial intelligence era. The knowledge management process. 3. **Challenges of Knowledge Management** in a dynamic project environment. 4. **The Role of Knowledge** as a strategic resource in innovative projects. 5. **Artificial Intelligence as a Tool** supporting knowledge management in projects. An overview of key AI technologies. 6. **Opportunities for AI Utilization** in identifying, acquiring, and organizing project knowledge. 7. **Building an Organizational Culture** conducive to knowledge sharing in projects in the AI era. 8. **Factors Influencing Knowledge Sharing** among project team members. 9. **Using AI Tools to Support Communication and Knowledge Exchange** (e.g., collaboration platforms). 10. **Methods and Tools for Acquiring and Structuring Knowledge** in projects with AI utilization. 11. **Using AI for Personalizing Knowledge Access** and supporting decision-making in projects. 12. **Expert Knowledge Management and Knowledge Transfer** in project teams supported by AI. 13. **Security and Ethical Aspects** of knowledge management in projects in the AI era. 14. **The Future of Knowledge Management in Projects in the AI Era** trends and perspectives. 15. **The Role of Deep Learning and Generative AI Models** in the future of project knowledge management. 16. **Integrating Knowledge Management with AI-Supported Project Management Areas.**
Prerequisites and co-requisites	Students are **required to attend both lectures and tutorials**. **Attendance at tutorials is mandatory**. A **basic understanding of organizational and management theory** is necessary. Completed introductory courses include: **Management**.
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
Final assessment grade	51.0%	50.0%
Grades from coursework	51.0%	20.0%
Grades from written colloquiums	51.0%	30.0%

Recommended reading	Basic literature	Here are the English translations of the references: 1. **Digital Transformation: Challenges and Opportunities for Polish Enterprises**, collective work edited by Dariusz Fila, 2021. 2. **Szpitter, A.A. (2013).** *Knowledge Management in Innovation Creation: A Project Maturity Model for Organizations*. Wyd. UG, Sopot. 3. **Dalkir, K. (2022).** *Knowledge Management in Theory and Practice*.
	Supplementary literature	Here are the English translations of the references: 1. **Raghuraman, R. (2020).** *AI-Powered Enterprise: How to Automate B2B Processes Using Cognitive Technologies*. 2. **Barnes, S.** *Designing a Successful KM Strategy: A Guide for the Knowledge Management Professional*. 3. **Nonaka, I., & Takeuchi, H. (2019).** *The Knowledge-Creating Company: How Japanese Companies Create the Dynamics of Innovation*.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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