



## Subject card

Subject name and code	AI Strategy , PG_00066996						
Field of study	Smart Renewable Energy Engineering						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	second-cycle studies	Subject group			Optional subject group Humanistic-social subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			English		
Semester of study	2	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Entrepreneurship -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Marita Mcphillips					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0	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		41.0		75
Subject objectives	Tworzenie i wdrażanie strategii AI w przemyśle, z uwzględnieniem wyzwań technicznych, etycznych i zarządczych.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	Can apply knowledge to the analysis of strategic problems related to the implementation of AI, taking into account social, economic and legal aspects.			[SU2] Assessment of ability to analyse information		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Has knowledge in the field of social, economic and legal aspects of the development of artificial intelligence and their practical applications in the context of strategic planning.			[SW1] Assessment of factual knowledge		
	[K7_U05] can produce concise, clear technical reports, documenting analytical findings and presenting them in report format	Can present the outcomes of the analysis of strategic problems related to the implementation of AI in an appropriate form.			[SU5] Assessment of ability to present the results of task		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	Can explain and justify the need to develop and implement AI strategies, with particular emphasis on responsible and ethical impact on society.			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	<p>Course content – lecture</p> <p>The course focuses on a comprehensive approach to implementing AI solutions in organizations. Students will learn key aspects of developing an AI strategy, implementing it, and managing AI projects, considering technical, ethical, and managerial challenges.</p> <p>Overview of different AI technologies and potential applications; practical examples and use cases; benefits from a business perspective (financial and operational); lessons learned and best practices; unique challenges and opportunities for implementation in the manufacturing and energy sectors</p> <p>Strategic AI implementation: developing an AI strategy; managing AI projects; managing change and organizational readiness for AI; evaluating and selecting AI tools for specific needs; measuring AI implementation success</p> <p>AI solution challenges, i.e. data quality control and accuracy; ethical, legal, and regulatory aspects; technical complexity and challenges</p> <p>Data management and intellectual property protection in the context of AI</p> <p>Building an AI team for industrial projects; roles and skills in the AI team; collaboration between AI specialists and industry professionals</p> <p>Sustainability and AI: benefits of environmental modeling; minimizing environmental footprint; ensuring compliance with regulations</p> <p>Future AI trends in manufacturing and energy sectors</p> <p>The assessment is based on a short quizz and small in-class assignments (e.g. case study), in-class activities, and a project to create an AI strategy for the organization (including analysis of needs and opportunities, implementation plan, change management strategy, risk assessment, presentation to the group, etc.).</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 1263 794 1301">Subject passing criteria</th> <th data-bbox="799 1263 1137 1301">Passing threshold</th> <th data-bbox="1142 1263 1469 1301">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 1308 794 1337">Project</td> <td data-bbox="799 1308 1137 1337">60.0%</td> <td data-bbox="1142 1308 1469 1337">50.0%</td> </tr> <tr> <td data-bbox="456 1341 794 1370">Activity during classes</td> <td data-bbox="799 1341 1137 1370">60.0%</td> <td data-bbox="1142 1341 1469 1370">20.0%</td> </tr> <tr> <td data-bbox="456 1375 794 1402">Quizzes and tasks</td> <td data-bbox="799 1375 1137 1402">60.0%</td> <td data-bbox="1142 1375 1469 1402">30.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project	60.0%	50.0%	Activity during classes	60.0%	20.0%	Quizzes and tasks	60.0%	30.0%
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Coursera: AI for Everyone (Andrew Ng)</p> <p>Current industry publications on AI implementation</p> <p>Case studies from the industrial and energy sectors</p> <p>Mollick, E. (2023). Co-intelligence: Living and working with AI. Harvard Business Review Press.</p>													
Example issues/ example questions/ tasks being completed	<p>Group Discussion: Key Challenges for AI Implementation in the Energy Sector.</p> <p>A Short Quiz on AI Bias</p>														
Practical activites within the subject	Not applicable														

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