

Subject card

Subject name and code	Al Strategy , PG_00066996								
Field of study	Smart Renewable Energy Engineering								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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 -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. Marita						
of lecturer (lecturers)	Teachers	-		i			i	i	
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	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 wdrażani zarządczych.	e strategii AI w	przemyśle, z ι	uwzględnienier	n wyzwa	ań techi	nicznych, ety	cznych i	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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_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_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 Al strategies, with particular emphasis on responsible and ethical impact on society.			[SK5] Assessment of ability to solve problems that arise in practice			
	[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 Al in an appropriate form.			[SU5] Assessment of ability to present the results of task			

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\	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.						
f	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						
	Strategic Al implementation: developing an Al strategy; managing Al projects; managing change and organizational readiness for Al; evaluating and selecting Al tools for specific needs; measuring Al implementation success						
	Al solution challenges, i.e. data quality control and accuracy; ethical, legal, and regulatory aspects; technical complexity and challenges						
1	Data management and intellectual property protection in the context of Al						
	Building an Al team for industrial projects; roles and skills in the Al team; collaboration between Al specialists and industry professionals						
	Sustainability and AI: benefits of environmental modeling; minimizing environmental footprint; ensurin compliance with regulations						
ı	Future Al trends in manufacturing and energy sectors						
	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.).						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Quizzes and tasks	60.0%	30.0%				
	Activity during classes	60.0%	20.0%				
	Project	60.0%	50.0%				
-	Basic literature	Coursera: Al for Everyone (Andrew Ng) Current industry publications on Al implementation					
		Case studies from the industrial and energy sectors					
3	Supplementary literature	Mollick, E. (2023). Co-intelligence: Living and working with Al. Harvard Business Review Press.					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Group Discussion: Key Challenges for Al Implementation in the Energy Sector.						
		A Short Quiz on Al Bias					
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