



Subject card

Subject name and code	Psychology in Management, PG_00073090						
Field of study	Mechanical Engineering						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		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	1		ECTS credits		1.0		
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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Dominika Zakrzewska				
	Teachers		dr inż. Dominika Zakrzewska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		0.0		0.0	15
Subject objectives	The aim of the course is to develop students' understanding of psychological factors influencing individual and team behaviour in engineering organisations and their ability to apply this knowledge to employee motivation, communication, leadership and decision-making.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K71] is able to explain the need to apply knowledge from the humanities, social sciences, economics, or law to solve problems		The student can explain the need to use psychological knowledge to support responsible management, effective cooperation and constructive interpersonal relationships in engineering organisations.		[SK2] Assessment of progress of work [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U71] is able to apply knowledge from humanities, social sciences, economics, or law to solve problems		The student can apply selected psychological concepts to analyse and solve problems related to employee motivation, communication, teamwork and decision-making in engineering organisations.		[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
	[K6_W71] has general knowledge in the fields of humanities, social sciences, economics, or law, including their fundamentals and applications		The student has basic knowledge of psychological theories and mechanisms underlying individual and group behaviour and their applications in management within engineering organisations.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Course content – lecture 1. Introduction to Psychology in Engineering Management 2. Individual Differences and Behaviour at Work 3. Employee Motivation and Job Design 4. Cognitive Processes and Decision-Making in Engineering 5. Communication and Conflict Management 6. Teamwork and Leadership in Technical Organisations 7. Occupational Stress, Well-Being and Safety Behaviour 8. Psychology of Organisational Change and Ethical Management						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lecture	60.0%	80.0%
	Attendance	90.0%	20.0%
Recommended reading	Basic literature	1. Arnold, J., Coyne, I., Randall, R., Patterson, F. (2020). Work Psychology: Understanding Human Behaviour in the Workplace. 7th edition. Pearson. 2. Robbins, S. P., Judge, T. A. (2023). Organizational Behavior, Global Edition. 19th edition. Pearson. 3. Northouse, P. G. (2021). Leadership: Theory and Practice. 9th edition.	
	Supplementary literature	1. Chmiel, N., Fraccaroli, F., Sverke, M. (Eds.). (2017). An Introduction to Work and Organizational Psychology: An International Perspective. 3rd edition. John Wiley & Sons. Wiley Online Books 2. Kahneman, D. (2011). Thinking, Fast and Slow. Penguin.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Explain how intrinsic and extrinsic motivation influence employee engagement and performance in a manufacturing organisation. 2. Analyse how cognitive biases can affect engineering decisions and propose ways to reduce their influence. 3. Identify possible causes of conflict between production and maintenance teams and propose a resolution. 4. Select and justify a leadership approach for an engineering team working under time pressure. 5. Analyse employee resistance to the introduction of automation and propose measures to support adaptation to change.		
Practical activities within the subject	Not applicable		

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